

CITY OF OCALA PERMIT APPLICATION

BLED04-1485

Date: 12-01-04

PERMIT TYPE: BLD ELEC PLM HVAC GAS SITE ALARM ✓

Commercial ✓ Residential

New Repair Alteration Addition

Master Permit # Bld 04-2007-2009 Parcel #: 237828-000-00

Site Address: 3500 SW College Rd Project Name: Chuck E Cheese's Pizza

Subdivision Oak Unit 200 Lot Block

Contractors Name: D.S. Security Systems Inc. City Comp/State Lic #:

Square Footage of Project: 11700

Estimated Value of Job (excluding lot) \$ \$10,300

Description of Work: Fire Alarm install

Gary - 732-2357

COMMERCIAL ELECTRIC METERS

OVERHEAD UNDERGROUND
AMPS PHASE VOLTAGE
OF METERS CHG OF SERVICE

ELECTRIC SERVICE SINGLE PHASE OR THREE PHASE

NOT OVER 200 AMPS	\$ 3.00
NOT OVER 400 AMPS	\$ 4.00
NOT OVER 600 AMPS	\$ 6.00
NOT OVER 800 AMPS	\$ 8.00
NOT OVER 1000 AMPS	\$10.00
FOR EA ADD'L 100 AMP	\$ 1.00
EA ADDT'L METER	\$ 3.00

FAX PERMITS ONLY

Contractors Signature: [Signature] Fax #: 352 732 7357

STATE OF FLORIDA
COUNTY OF MARION

NOTARY SIGNATURE: NOTARY SEAL:

13675

___BLDG. ___ELECTRICAL ^{af} FIRE DEPT. ___IND. WASTE
12/3/04

BUILDING PLAN REVIEW WORKSHEET

DATE: 12/2/2004

ELECTRIC PERMIT - ELE04-1485 - INSTALL FIRE ALARM SYSTEM

PROJECT TITLE: CHUCK E CHEESE #780/INTERIOR RENOVATION/FIRE ALARM

ADDRESS: 3500 SW COL RD #200

COMPLEX:

CONTACT: D J P SECURITY SYSTEMS INC TEL: 3527322357

ENGINEER : <undefined value> TEL: <undefined value>

ARCH./DESIGNER: <undefined value> TEL: <undefined value>

CONTRACTOR: D J P SECURITY SYSTEMS INC TEL: 3527322357

PARCEL NO: 23728-000-00 DISTRICT:

THRESHOLD BUILDING YES _____ NO _____

UNDERGROUND UTILITIES YES _____ NO _____

SITE PLAN YES _____ NO _____

3 SETS SEALED PLANS YES _____ NO _____

2 SETS FLORIDA ENERGY YES _____ NO _____

SEPTIC TANK PERMIT REQUIRED - YES _____ NO _____ RECEIVED- YES _____ NO _____

SDC YES _____ NO _____

FIRE DEPARTMENT - YES _____ NO _____

ELECTRICAL - YES _____ NO _____

PLUMBING-YES ___ NO ___ HVAC-YES ___ NO ___ HANDICAP REQUIREMENTS: YES ___ NO ___

FIRE SPRINKLER YES ___ NO ___ COMPANY _____

BUILDING TYPE _____ SQUARE FOOTAGE _____

ANY MODIFICATION: YES _____ NO _____

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

___BLDG. ___ ELECTRICAL ___ FIRE DEPT. ___ IND. WASTE

BUILDING PLAN REVIEW WORKSHEET

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ELECTRIC PERMIT – ELE04-1485 – INSTALL FIRE ALARM SYSTEM

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CONTRACTOR: D J P SECURITY SYSTEMS INC TEL: 3527322357

PARCEL NO: 23728-000-00 DISTRICT:

THRESHOLD BUILDING YES_____NO_____

UNDERGROUND UTILITIES YES_____NO_____

SITE PLAN YES_____NO_____

3 SETS SEALED PLANS YES____NO_____

2 SETS FLORIDA ENERGY YES____NO_____

SEPTIC TANK PERMIT REQUIRED - YES_____NO_____ RECEIVED- YES_____NO_____

SDC YES_____NO_____

FIRE DEPARTMENT - YES_____NO_____

ELECTRICAL – YES_____NO_____

PLUMBING-YES___NO___ HVAC-YES___NO___ HANDICAP REQUIREMENTS: YES___NO___

FIRE SPRINKLER YES___NO___ COMPANY_____

BUILDING TYPE_____ SQUARE FOOTAGE_____

ANY MODIFICATION: YES___NO___

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

Fire Department Fee Worksheet			
Building Permit # ELE04-1485			
Name of Business Chuck E. Cheese			
	Type	Cost	mark cost items here
1			
2	Site Plan Review - per phase	\$ 25.00	
3	New Construction/Renovations/Additions	0.05 per square foot	
4	Fire Sprinkler/Standpipe up to 10,000 square feet - Per system per building	\$ 75.00	
5	Fire Sprinkler/Standpipe over 10,000 square feet	10.00 per 1000sf over 10000sf	
6	Fire Alarm Systems, up to 10000 square feet - per system per building	\$ 75.00	✓
7	Fire Alarm Systems, over 10000 square feet	10.00 per 1000sf over 10000sf	or ✓
8	Smoke Evacuation Systems up to 10000 square feet	\$ 75.00	
9	Smoke Evacuation Systems over 10000 square feet	10.00 per 1000sf over 10000sf	
10	Fire Supression Systems (Hoods or booths) - per system	\$ 25.00	
11	Ventilation Systems (Hoods or Paint Booths)	\$ 25.00	
12	Emergency Generator Systems - per system	\$ 25.00	
13	Fire Pump - per pump	\$ 35.00	
14	Fireworks: (public or private displays) - per display	\$ 50.00	
15	Tents (Sales, carnivals, and revivals) - per site	\$ 35.00	
16	Amusement Parks (fairs, carnivals, and festivals) - per site	\$ 100.00	
17	Burn Permits, (rural/commercial/open burning)	\$ 50.00	
18	Burn Permits (ceremonial/campfires)	NO CHARGE	
Total:			
<u>Note:</u> Sprinkler systems, alarm systems and smoke evacuation systems are assessed as follows: Buildings less than 10,000 square feet = \$75.00, Buildings greater than 10,000sf = \$75.00 + \$10.00 per 1000sf over 10,000 square feet. <u>New Construction:</u> .05 multiplied by the total square footage.			

Sq. Ft.
Not
Listed

LEGEND

HYD REF Hydraulic reference. Refer to accompanying flow diagram.
 K FACTOR Flow factor for open head or path where $\text{Flow (gpm)} = K \times \sqrt{P}$
 SIZE Nominal size of pipe.
 ID Actual internal diameter of pipe
 C Hazen Williams pipe roughness factor
 TYPE Type or schedule of pipe
 # FITS number of fittings as follows:
 90 - 90 deg Ell 45 - 45 deg Ell T - Tee LT - Long Turn 90 Ell
 SPEC - Fitting other than above or fitting with hydraulic
 equivalent length specified by manufacturer.
 Pt Total pressure (psi) at fitting
 Pf Friction loss (psi) to fitting
 where $P_f = 1 \times 4.52 \times (Q/C)^{1.85} / ID^{4.87}$
 Pe Pressure due to change in elevation
 where $P_e = 0.433 \times \text{change in elevation}$
 Pv Velocity pressure (psi)
 where $P_v = 0.001123 \times Q^2 / ID^4$
 Pn Normal pressure (psi)
 where $P_n = P_t - P_v$
 Pdrop Pressure loss in pipe rise or drop to an open head.
 Phead Pressure at an open head.
 ELEV elevation from branch tee to open head.
 PIPE pipe length from branch tee to open head.
 FITS fitting equivalent length from branch tee to open head.

NOTES:

- Pressures are balanced to 0.001 gpm. Pressures are listed to 0.01 psi. Addition may vary by 0.01 psi due to accumulation of round off.
- Calculations conform to NFPA 13 edition.
- Velocity Pressures are not considered in these Calculations
- Path #1 is from the most remote head back to the water source.
- Later Paths are from the next most remote head back to previously defined paths

REMOTE AREA #1

PAGE 1

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE	90	45	PIPE	VELOCITY	Pt	Pt	Pn
K FACTOR	PIPE	ID	T	LT	FITTINGS	LOSS PSI/FT	Pf	Pv	Pdrop
	PIPE	C TYPE	OTHER		TOTAL	ELEVATION	Pe	Pn	Phead
									PIPE
									FITS

PATH 1 FROM HYDRAULIC REFERENCE 3 TO W (PRIMARY PATH)

HEAD 3	26.0	1"	2	0	11'7"	9.7 fps	10.7		10.7	-14"
0.10 gpm/sq ft		1.049"	0	0	4'0"	0.211	3.3		0.2	14"
K= 8.00	26.0	120 40		0	15'7"	6"	0.2		10.6	24"
REF 43	27.1	1"	0	0	5'11"	19.9 fps	14.2			
PATH 2		1.049"	0	0	0"	0.792	4.7			
K= 7.18	53.1	120 40		0	5'11"	0"	0.0			
REF 42	31.7	1½"	0	0	10'0"	18.4 fps	18.9			
PATH 3		1.380"	0	0	0"	0.495	5.0			
K= 7.28	84.8	120 40		0	10'0"	0"	0.0			
REF 41	33.5	1½"	0	0	6'0"	18.8 fps	23.9			
PATH 4		1.610"	0	0	0"	0.433	2.6			
K= 6.85	118.3	120 40		0	6'0"	0"	0.0			
REF 40	37.5	1½"	0	0	8'10"	24.8 fps	26.5			
PATH 6		1.610"	1	0	8'0"	0.720	12.1			
K= 7.28	155.7	120 40		0	16'10"	0"	0.0			
REF A1		4"	0	0	14'0"	3.5 fps	38.6			
		4.260"	0	0	0"	0.006	0.1			
	155.7	120 10		0	14'0"	0"	0.0			
REF A2	78.4	4"	0	0	18'0"	5.3 fps	38.7			
PATH 5		4.260"	0	0	0"	0.013	0.2			
K= 12.61	234.1	120 10		0	18'0"	0"	0.0			
REF A3		4"	0	0	12'0"	5.3 fps	38.9			
		4.260"	0	0	0"	0.013	0.2			
	234.1	120 10		0	12'0"	0"	0.0			
REF A4		4"	0	0	5'10"	5.3 fps	39.1			
		4.260"	0	0	0"	0.013	0.1			
	234.1	120 10		0	5'10"	0"	0.0			

CONTINUED

39.1 psi

REMOTE AREA #1

PAGE 2

FLOW (GPM)		PIPE	# OF FITS	LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD		
HYD REF	OUTLET	SIZE ID	90 45 T LT	PIPE FITTINGS TOTAL	VELOCITY LOSS PSI/FT ELEVATION	Pt Pf Pe	Pt Pv Pn	Pn Pdrop Phead	ELEV PIPE FITS
K FACTOR	PIPE	C TYPE	OTHER						

PATH 1 FROM HYDRAULIC REFERENCE 3 TO W (PRIMARY PATH) CONTINUED

REF A5		4"	0 0	53'5"	5.3 fps	39.1			
		4.260"	0 0	0"	0.013	0.7			
234.1	120 10		0	53'5"	0"	0.0			
REF A6		4"	0 0	12'0"	5.3 fps	39.9			
		4.260"	0 0	0"	0.013	0.2			
234.1	120 10		0	12'0"	0"	0.0			
REF A7		4"	2 0	41'8"	5.3 fps	40.0			
		4.260"	0 0	26'4"	0.013	0.9			
234.1	120 10		0	68'0"	0"	0.0			
REF W	234.1 gpm		PATH 1	K= 36.60		40.9 psi			

PATH 2 FROM HYDRAULIC REFERENCE 1 TO 43

HEAD 1	27.1	1"	2 0	3'10"	10.2 fps	11.1		11.1	-50"
0.10 gpm/sq ft		1.049"	1 0	9'0"	0.228	2.9		-0.4	50"
K= 8.00	27.1	120 40	0	12'10"	6"	0.2		11.5	24"
REF 43	27.1 gpm		PATH 2	K= 7.18		14.2 psi			

PATH 3 FROM HYDRAULIC REFERENCE 4 TO 42

HEAD 4	31.7	1"	1 0	1'6"	11.9 fps	16.1		16.1	-14"
0.12 gpm/sq ft		1.049"	1 0	7'0"	0.305	2.6		0.5	14"
K= 8.00	31.7	120 40	0	8'6"	6"	0.2		15.7	24"
REF 42	31.7 gpm		PATH 3	K= 7.28		18.9 psi			

PATH 4 FROM HYDRAULIC REFERENCE 2 TO 41

HEAD 2	33.5	1"	2 0	7'6"	12.6 fps	18.1		18.1	-14"
0.13 gpm/sq ft		1.049"	1 0	9'0"	0.338	5.6		0.6	14"
K= 8.00	33.5	120 40	0	16'6"	6"	0.2		17.5	24"
REF 41	33.5 gpm		PATH 4	K= 6.85		23.9 psi			

REMOTE AREA #1

PAGE 3

		FLOW (GPM)	PIPE	# OF FITS	LENGTH FEET	PRESSURE SUMMARY			BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE	90 45	PIPE	VELOCITY	Pt	Pt	Pn	ELEV	
		ID	T LT	FITTINGS	LOSS PSI/FT	Pf	Pv	Pdrop	PIPE	
K FACTOR	PIPE	C TYPE	OTHER	TOTAL	ELEVATION	Pe	Pn	Phead	FITS	

PATH 5 FROM HYDRAULIC REFERENCE 6 TO A2

HEAD 6	37.0	1"	1 0	17'6"	13.9 fps	22.2		22.2	-14"
0.14 gpm/sq ft		1.049"	1 0	7'0"	0.406	9.9		0.8	14"
K= 8.00	37.0	120 40	0	24'6"	6"	0.2		21.4	24"
REF 44	41.4	1 1/4"	0 0	8'10"	17.0 fps	32.3			
PATH 7		1.380"	1 0	6'0"	0.428	6.3			
K= 7.28	78.4	120 40	0	14'10"	0"	0.0			

REF A2 78.4 gpm PATH 5 K= 12.61 38.7 psi

PATH 6 FROM HYDRAULIC REFERENCE 5 TO 40

HEAD 5	37.5	1"	1 0	1'6"	14.0 fps	22.7		22.7	-14"
0.14 gpm/sq ft		1.049"	1 0	7'0"	0.416	3.5		0.8	14"
K= 8.00	37.5	120 40	0	8'6"	6"	0.2		21.9	24"

REF 40 37.5 gpm PATH 6 K= 7.28 26.5 psi

PATH 7 FROM HYDRAULIC REFERENCE 7 TO 44

HEAD 7	41.4	1"	1 0	1'6"	15.5 fps	27.9		27.9	-14"
0.16 gpm/sq ft		1.049"	1 0	7'0"	0.500	4.3		1.1	14"
K= 8.00	41.4	120 40	0	8'6"	6"	0.2		26.8	24"

REF 44 41.4 gpm PATH 7 K= 7.28 32.3 psi

REMOTE AREA #2

PAGE 1

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE ID	90 T	45 LT	PIPE FITTINGS TOTAL	VELOCITY LOSS PSI/FT ELEVATION	Pt Pf Pe	Pn Pv Pn	ELEV PIPE FITS
K FACTOR	PIPE	C TYPE	OTHER					Pdrop Phead	

PATH 1 FROM HYDRAULIC REFERENCE 8 TO W (PRIMARY PATH)

HEAD 8	25.9	1"	1	0	10'0"	9.7 fps	20.8		20.8 -52"
0.20 gpm/sq ft		1.049"	1	0	7'0"	0.210	3.6		-0.6 52"
K= 5.60	25.9	120 40		0	17'0"	6"	0.2		21.4 24"
REF 49	26.8	1 1/4"	1	0	14'4"	11.4 fps	24.6		
PATH 2		1.380"	1	0	9'0"	0.205	4.8		
K= 5.40	52.7	120 40		0	23'4"	0"	0.0		
REF 47	57.2	2"	0	0	5'2"	10.6 fps	29.4		
PATH 6		2.067"	0	0	0"	0.112	0.6		
K= 10.55	109.8	120 40		0	5'2"	0"	0.0		
REF 46	39.9	2"	0	0	16'0"	14.5 fps	30.0		
PATH 7		2.067"	0	0	0"	0.198	3.2		
K= 7.28	149.7	120 40		0	16'0"	0"	0.0		
REF 45	41.9	2 1/2"	0	0	8'10"	13.0 fps	33.1		
PATH 10		2.469"	1	0	12'0"	0.132	2.7		
K= 7.28	191.6	120 40		0	20'10"	0"	0.0		
REF A3		4"	0	0	12'0"	4.4 fps	35.9		
		4.260"	0	0	0"	0.009	0.1		
	191.6	120 10		0	12'0"	0"	0.0		
REF A4	93.7	4"	0	0	5'10"	6.5 fps	36.0		
PATH 3		4.260"	0	0	0"	0.019	0.1		
K= 15.62	285.4	120 10		0	5'10"	0"	0.0		
REF A5	61.0	4"	0	0	53'5"	7.9 fps	36.1		
PATH 9		4.260"	0	0	0"	0.028	1.5		
K= 10.15	346.3	120 10		0	53'5"	0"	0.0		
REF A6		4"	0	0	12'0"	7.9 fps	37.6		
		4.260"	0	0	0"	0.028	0.3		
	346.3	120 10		0	12'0"	0"	0.0		

CONTINUED

37.9 psi

REMOTE AREA #2

PAGE 2

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE ID	90 T	45 LT	PIPE FITTINGS TOTAL	VELOCITY LOSS PSI/FT ELEVATION	Pt Pf	Pn Pv	ELEV PIPE FITS
K FACTOR	PIPE	C TYPE	OTHER				Pe	Pn	Phead

PATH 1 FROM HYDRAULIC REFERENCE 8 TO W (PRIMARY PATH) CONTINUED

REF A7		4"	2	0	41'8"	7.9 fps	37.9		
		4.260"	0	0	26'4"	0.028	1.9		
346.3	120	10		0	68'0"	0"	0.0		
REF W	346.3 gpm		PATH 1		K= 54.90		39.8 psi		

PATH 2 FROM HYDRAULIC REFERENCE 9 TO 49

HEAD 9	26.8	1"	1	0	2'0"	10.0 fps	22.4	22.4	-52"
0.21 gpm/sq ft		1.049"	1	0	7'0"	0.223	2.0	-0.5	52"
K= 5.60	26.8	120	40		9'0"	6"	0.2	22.8	24"
REF 49	26.8 gpm		PATH 2		K= 5.40		24.6 psi		

PATH 3 FROM HYDRAULIC REFERENCE 14 TO A4

HEAD 14	27.1	1"	1	0	8'8"	10.1 fps	22.4	22.4	-80"
0.21 gpm/sq ft		1.049"	1	0	7'0"	0.228	3.6	-0.9	80"
K= 5.60	27.1	120	40		15'8"	6"	0.2	23.4	24"
REF 52	27.7	1 1/4"	0	0	11'4"	11.9 fps	26.2		
PATH 4		1.380"	0	0	0"	0.220	2.5		
K= 5.40	54.7	120	40		11'4"	0"	0.0		
REF 51	39.0	1 1/2"	2	0	10'0"	14.9 fps	28.7		
PATH 5		1.610"	0	0	8'0"	0.281	5.1		
K= 7.28	93.7	120	40		18'0"	0"	0.0		
REF 50		2"	0	0	16'10"	9.0 fps	33.8		
		2.067"	1	0	10'0"	0.083	2.2		
93.7	120	40		0	26'10"	0"	0.0		
REF A4	93.7 gpm		PATH 3		K= 15.62		36.0 psi		

REMOTE AREA #2

PAGE 3

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE	90	45	PIPE	VELOCITY	Pt	Pn	ELEV
K FACTOR	PIPE	ID	T	LT	FITTINGS	LOSS PSI/FT	Pf	Pv	Pdrop
		C TYPE	OTHER		TOTAL	ELEVATION	Pe	Pn	Phead
									PIPE FITS

PATH 4 FROM HYDRAULIC REFERENCE 15 TO 52

HEAD 15	27.7	1"	1	0	1'3"	10.4 fps	24.0		24.0	-52"
0.21 gpm/sq ft		1.049"	1	0	7'0"	0.237	2.0		-0.4	52"
K= 5.60	27.7	120 40		0	8'3"	6"	0.2		24.4	24"
REF 52	27.7 gpm				PATH 4 K= 5.40		26.2 psi			

PATH 5 FROM HYDRAULIC REFERENCE 16 TO 51

HEAD 16	39.0	1"	1	0	1'6"	14.6 fps	24.7		24.7	-14"
0.15 gpm/sq ft		1.049"	1	0	7'0"	0.448	3.8		0.9	14"
K= 8.00	39.0	120 40		0	8'6"	6"	0.2		23.8	24"
REF 51	39.0 gpm				PATH 5 K= 7.28		28.7 psi			

PATH 6 FROM HYDRAULIC REFERENCE 11 TO 47

HEAD 11	28.5	1"	1	0	1'9"	10.7 fps	25.5		25.5	-52"
0.22 gpm/sq ft		1.049"	1	0	7'0"	0.250	2.2		-0.3	52"
K= 5.60	28.5	120 40		0	8'9"	6"	0.2		25.8	24"
REF 48	28.7	1 1/4"	0	0	6'1"	12.4 fps	27.9			
PATH 8		1.380"	0	0	0"	0.239	1.5			
K= 5.43	57.2	120 40		0	6'1"	0"	0.0			
REF 47	57.2 gpm				PATH 6 K= 10.55		29.4 psi			

PATH 7 FROM HYDRAULIC REFERENCE 12 TO 46

HEAD 12	39.9	1"	1	0	1'6"	14.9 fps	25.8		25.8	-14"
0.15 gpm/sq ft		1.049"	1	0	7'0"	0.466	4.0		1.0	14"
K= 8.00	39.9	120 40		0	8'6"	6"	0.2		24.8	24"
REF 46	39.9 gpm				PATH 7 K= 7.28		30.0 psi			

REMOTE AREA #2

PAGE 4

FLOW (GPM)		PIPE	# OF FITS	LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD		
HYD REF	OUTLET	SIZE ID	90 45 T LT	PIPE FITTINGS TOTAL	VELOCITY LOSS PSI/FT ELEVATION	Pt Pf Pe	Pt Pv Pn	Pn Pdrop Phead	ELEV PIPE FITS
K FACTOR	PIPE	C TYPE	OTHER						

PATH 8 FROM HYDRAULIC REFERENCE 10 TO 48

HEAD 10	28.7	1"	0 0	6'11"	10.8 fps	26.2		26.2	-92"
0.22 gpm/sq ft		1.049"	0 0	0"	0.254	1.7		-0.1	92"
K= 5.60	28.7	120 40	0	6'11"	0"	0.0		26.3	60"
REF 48	28.7 gpm			PATH 8 K=	5.43			27.9 psi	

PATH 9 FROM HYDRAULIC REFERENCE 17 TO A5

HEAD 17	30.0	1"	1 0	10'4"	11.2 fps	28.2		28.2	-80"
0.23 gpm/sq ft		1.049"	1 0	7'0"	0.276	4.8		-0.5	80"
K= 5.60	30.0	120 40	0	17'4"	6"	0.2		28.7	24"
REF 55	31.0	1½"	0 0	2'2"	13.2 fps	33.2			
PATH 11		1.380"	0 0	0"	0.269	0.6			
K= 5.37	61.0	120 40	0	2'2"	0"	0.0			
REF 54		1½"	0 0	8'0"	9.7 fps	33.8			
		1.610"	0 0	0"	0.127	1.0			
	61.0	120 40	0	8'0"	0"	0.0			
REF 53		2"	0 0	24'3"	5.9 fps	34.8			
		2.067"	1 0	10'0"	0.038	1.3			
	61.0	120 40	0	34'3"	0"	0.0			
REF A5	61.0 gpm			PATH 9 K=	10.15			36.1 psi	

PATH 10 FROM HYDRAULIC REFERENCE 13 TO 45

HEAD 13	41.9	1"	1 0	1'6"	15.7 fps	28.6		28.6	-14"
0.16 gpm/sq ft		1.049"	1 0	7'0"	0.512	4.4		1.1	14"
K= 8.00	41.9	120 40	0	8'6"	6"	0.2		27.5	24"
REF 45	41.9 gpm			PATH 10 K=	7.28			33.1 psi	

REMOTE AREA #2

PAGE 5

FLOW (GPM)		PIPE	# OF FITS	LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD		
HYD REF	OUTLET	SIZE ID	90 45 T LT	PIPE FITTINGS	VELOCITY LOSS PSI/FT	Pt Pf	Pt Pv	Pn Pdrop	ELEV PIPE
K FACTOR	PIPE	C TYPE	OTHER	TOTAL	ELEVATION	Pe	Pn	Phead	FITS

PATH 11 FROM HYDRAULIC REFERENCE 18 TO 55

HEAD 18	31.0	1"	1 0	2'6"	11.6 fps	30.2		30.2	-80"
0.24 gpm/sq ft		1.049"	1 0	7'0"	0.292	2.8		-0.4	80"
K= 5.60	31.0	120 40	0	9'6"	6"	0.2		30.6	24"
REF 55	31.0 gpm		PATH 11 K=	5.37		33.2 psi			

REMOTE AREA #3

PAGE 1

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE	90	45	PIPE	VELOCITY	Pt	Pt	Pn
		ID	T	LT	FITTINGS	LOSS PSI/FT	Pf	Pv	Pdrop
K FACTOR	PIPE	C TYPE	OTHER		TOTAL	ELEVATION	Pe	Pn	Phead
									PIPE FITS

PATH 1 FROM HYDRAULIC REFERENCE 34 TO W (PRIMARY PATH)

HEAD 34	19.6	1"	0	0	8'0"	7.3 fps	12.2		12.2
0.15 gpm/sq ft		1.049"	0	0	0"	0.125	1.0		0.0
K= 5.60	19.6	120 40		0	8'0"	0"	0.0		12.2
HEAD 33	20.3	1"	0	0	8'0"	15.0 fps	13.2		13.2
0.16 gpm/sq ft		1.049"	0	0	0"	0.467	3.7		0.0
K= 5.60	39.9	120 40		0	8'0"	0"	0.0		13.2
HEAD 32	23.0	1½"	0	0	9'0"	13.6 fps	16.9		16.9
0.18 gpm/sq ft		1.380"	0	0	0"	0.285	2.6		0.0
K= 5.60	62.9	120 40		0	9'0"	0"	0.0		16.9
HEAD 31	24.7	1½"	0	0	9'0"	13.9 fps	19.5		19.5
0.19 gpm/sq ft		1.610"	0	0	0"	0.249	2.2		0.0
K= 5.60	87.7	120 40		0	9'0"	0"	0.0		19.5
HEAD 30	26.1	1½"	0	0	4'6"	18.1 fps	21.7		21.7
0.20 gpm/sq ft		1.610"	1	0	8'0"	0.403	5.0		0.0
K= 5.60	113.8	120 40		0	12'6"	0"	0.0		21.7
REF 59	81.7	2"	0	0	1'5"	18.9 fps	26.8		
PATH 5		2.067"	1	0	10'0"	0.325	3.7		
K= 15.79	195.5	120 40		0	11'5"	1'5"	0.6		
REF A7	192.9	4"	2	0	41'8"	8.8 fps	31.1		
PATH 2		4.260"	0	0	26'4"	0.034	2.3		
K= 34.61	388.4	120 10		0	68'0"	0"	0.0		
REF W	388.4 gpm				PATH 1 K= 67.20		33.4 psi		

PATH 2 FROM HYDRAULIC REFERENCE 26 TO A7

HEAD 26	19.5	1"	0	0	8'0"	7.3 fps	12.1		12.1
0.15 gpm/sq ft		1.049"	0	0	0"	0.124	1.0		0.0
K= 5.60	19.5	120 40		0	8'0"	0"	0.0		12.1
CONTINUED							13.1 psi		

REMOTE AREA #3

PAGE 2

FLOW (GPM)		PIPE	# OF FITS		LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE	90	45	PIPE	VELOCITY	Pt	Pt	Pn
K FACTOR	PIPE	ID	T	LT	FITTINGS	LOSS PSI/FT	Pf	Pv	Pdrop
	PIPE	C TYPE	OTHER		TOTAL	ELEVATION	Pe	Pn	Phead
									ELEV
									PIPE
									FITS

PATH 2 FROM HYDRAULIC REFERENCE 26 TO A7 CONTINUED

HEAD 25	20.3	1"	0	0	8'0"	14.9 fps	13.1		13.1
0.16 gpm/sq ft	1.049"		0	0	0"	0.464	3.7		0.0
K= 5.60	39.8	120 40		0	8'0"	0"	0.0		13.1
HEAD 24	23.0	1 1/4"	0	0	9'0"	13.6 fps	16.8		16.8
0.18 gpm/sq ft	1.380"		0	0	0"	0.284	2.6		0.0
K= 5.60	62.8	120 40		0	9'0"	0"	0.0		16.8
HEAD 23	24.7	1 1/2"	0	0	9'0"	13.9 fps	19.4		19.4
0.19 gpm/sq ft	1.610"		0	0	0"	0.247	2.2		0.0
K= 5.60	87.4	120 40		0	9'0"	0"	0.0		19.4
HEAD 22	26.0	1 1/2"	0	0	4'6"	18.1 fps	21.6		21.6
0.20 gpm/sq ft	1.610"		1	0	8'0"	0.401	5.0		0.0
K= 5.60	113.5	120 40		0	12'6"	0"	0.0		21.6
REF 56	79.5	2"	0	0	1'7"	18.6 fps	26.6		
PATH 3		2.067"	1	0	10'0"	0.317	3.7		
K= 15.41	192.9	120 40		0	11'7"	1'7"	0.7		
REF A6		4"	0	0	12'0"	4.4 fps	31.0		
		4.260"	0	0	0"	0.009	0.1		
	192.9	120 10		0	12'0"	0"	0.0		
REF A7	192.9 gpm				PATH 2 K= 34.61		31.1 psi		

PATH 3 FROM HYDRAULIC REFERENCE 19 TO 56

HEAD 19	26.0	1"	0	0	1'9"	9.7 fps	21.5		21.5
0.20 gpm/sq ft	1.049"		1	0	5'0"	0.211	1.4		0.0
K= 5.60	26.0	120 40		0	6'9"	0"	0.0		21.5
REF 58		1 1/2"	0	0	8'6"	4.1 fps	22.9		
		1.610"	0	0	0"	0.026	0.2		
	26.0	120 40		0	8'6"	0"	0.0		
CONTINUED							23.1 psi		

REMOTE AREA #3

PAGE 3

FLOW (GPM)		PIPE	# OF FITS	LENGTH FEET	PRESSURE SUMMARY		BRANCH LINE TO HEAD	
HYD REF	OUTLET	SIZE ID	90 45 T LT	PIPE FITTINGS TOTAL	VELOCITY LOSS PSI/FT ELEVATION	Pt Pf Pe	Pt Pv Pn	ELEV Pdrop Phead PIPE FITS
K FACTOR	PIPE	C TYPE	OTHER					

PATH 3 FROM HYDRAULIC REFERENCE 19 TO 56 CONTINUED

REF 57	26.1	1½"	0 0	9'6"	8.3 fps	23.1		
PATH 4		1.610"	0 0	0"	0.095	0.9		
K= 5.42	52.0	120 40	0	9'6"	0"	0.0		
HEAD 21	27.5	1½"	0 0	4'6"	12.7 fps	24.0		24.0
0.21 gpm/sq ft		1.610"	1 0	8'0"	0.207	2.6		0.0
K= 5.60	79.5	120 40	0	12'6"	0"	0.0		24.0
REF 56	79.5 gpm		PATH 3	K= 15.41		26.6 psi		

PATH 4 FROM HYDRAULIC REFERENCE 20 TO 57

HEAD 20	26.1	1"	0 0	1'9"	9.8 fps	21.7		21.7
0.20 gpm/sq ft		1.049"	1 0	5'0"	0.213	1.4		0.0
K= 5.60	26.1	120 40	0	6'9"	0"	0.0		21.7
REF 57	26.1 gpm		PATH 4	K= 5.42		23.1 psi		

PATH 5 FROM HYDRAULIC REFERENCE 27 TO 59

HEAD 27	27.2	1½"	0 0	7'0"	4.3 fps	23.2		23.2 -91"
0.21 gpm/sq ft		1.610"	0 0	0"	0.029	0.2		-0.4 91"
K= 5.60	27.2	120 40	0	7'0"	0"	0.0		23.6 60"
HEAD 28	27.1	1½"	0 0	6'6"	8.6 fps	23.4		23.4
0.21 gpm/sq ft		1.610"	0 0	0"	0.102	0.7		0.0
K= 5.60	54.3	120 40	0	6'6"	0"	0.0		23.4
HEAD 29	27.5	1½"	0 0	4'6"	13.0 fps	24.0		24.0
0.21 gpm/sq ft		1.610"	1 0	8'0"	0.218	2.7		0.0
K= 5.60	81.7	120 40	0	12'6"	0"	0.0		24.0
REF 59	81.7 gpm		PATH 5	K= 15.79		26.8 psi		

OCALA FIRE RESCUE

Fire Safety Management Division
Fire Marshal Barry Britton
Fire Inspector Dennis Lawson
Telephone: 352-629-8513

To: Plans Examiner - Building Department
From: Dennis Lawson – Fire Inspector 
Date: December 1, 2004
Re: Fire Sprinkler Plan Permit BLD04-2169

Chuck E Cheese
3500 SW College RD. #200
Ocala, FL.

Comments:

1. Fire sprinkler system shall be installed in strict accordance with NFPA 13. Fire sprinkler hydraulic calculations, copy of NFPA 25, as-built plans, system tagged and certified all shall be provided prior to approval for Certificate of Occupancy. **Please call for the required pressure test inspections as the work progresses.**
2. The double-detector check valve assembly dedicated to the sprinkler system shall have the following:
 - electronically monitored with tamper switches
 - chain locked in the open position.
3. The outside electric bell shall be provided with signage in accordance with NFPA 13. A-5-15.1
4. Please call the Ocala Fire Marshal's office at 352-629-8513 for all required fire department inspections.

___BLDG. ___ ELECTRICAL ___ FIRE DEPT. ___ IND. WASTE

BUILDING PLAN REVIEW WORKSHEET

DATE: 10/29/2004

BUILDING PERMIT # BLD04-2009 INTERIOR RENOVATION

PROJECT TITLE: CHUCK E CHEESE #780/INTERIOR RENOVATION

ADDRESS: 3500 SW COL RD #200

COMPLEX:

CONTACT: PARKWAY CONSTRUCTION TEL:

ENGINEER : <undefined value> TEL: <undefined value>

ARCH./DESIGNER: <undefined value> TEL: <undefined value>

CONTRACTOR: PARKWAY CONSTRUCTION TEL:

PARCEL NO: 23728-000-00 DISTRICT: <undefined value>

THRESHOLD BUILDING YES _____ NO _____

UNDERGROUND UTILITIES YES _____ NO _____

SITE PLAN YES _____ NO _____

3 SETS SEALED PLANS YES _____ NO _____

2 SETS FLORIDA ENERGY YES _____ NO _____

SEPTIC TANK PERMIT REQUIRED - YES _____ NO _____ RECEIVED- YES _____ NO _____

SDC YES _____ NO _____

FIRE DEPARTMENT - YES _____ NO _____

ELECTRICAL - YES _____ NO _____

PLUMBING-YES _____ NO _____ HVAC-YES _____ NO _____ HANDICAP REQUIREMENTS: YES _____ NO _____

FIRE SPRINKLER YES _____ NO _____ COMPANY _____

BUILDING TYPE _____ SQUARE FOOTAGE _____

ANY MODIFICATION: YES _____ NO _____

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

13

TO: LORENA
 PM: JOE
 RG: OCALA (IPA)



P.O. Box 1270
 Ocala, FL 34478
 Phone: (352) 351-6620
 Fax: (352) 401-6961

Electric Engineering Division

Technician _____

COMMERCIAL LOAD DATA SHEETMS ☐ EM ☐

Load information must be returned to Electric Engineering at least six weeks prior to service.
 Large or special loads may require additional time. Please contact Electric Engineering for further information.

Customer Name: _____

Service Address: _____

Mailing Address: _____

Telephone: _____ Fax: _____

Electrical Contractor: _____ Phone: _____

Date Service Required: _____

SERVICE ENTRANCE

Panel Size: 800 Amps (Circle One) Single / Three Phase
 Service Voltage: 208Y/120 Main Breaker Interrupting Rating: 42K Amps

NOTE: ALL 277/480 VOLT SERVICES WILL REQUIRE A CURRENT TRANSFORMER (CT) METERING INSTALLATION.

Number of Conductors per Phase: 2 Connected Load: 200.60 KW
 Service Entrance Conductor Size: _____ Running Load: 203.38 KW
 (2) SETS: (4) #500 THWN

MOTORS

Largest Motor: 5 Horsepower Type of Starting Device: MFR FURNISHED

LOADS

Lighting	: <u>25</u> KW	<u>70</u> Amps
A/C	: <u>47</u> KW	Tons (total) # of individual units <u>6</u>
Heat	: <u>-</u> KW	<u>-</u> Amps
Receptacle	: <u>20</u> KW	<u>70</u> Amps
Motors	: <u>5</u> HP	<u>1</u> HP
	: <u>1/4</u> HP	<u>1/4</u> HP
Misc. (Kitchen)	: <u>44</u> KW	<u>123</u> Amps

Remarks: ELECTRICAL SERVICE AND DISTRIBUTION PANELS ARE EXISTING

Form completed by: JOSEPH V. SCHULTZ, PEAddress: 840 TIMBER TOP CT Phone: 719-964-6040COLORADO SPRINGS CO 80921

WO#	_____
STA#	_____
KVA	_____
VOLTAGE	_____

(For OBU Use Only)

revised 3/17/2003



C T CHANG & ASSOCIATES, INC.
ARCHITECTURE-PLANNING-DESIGN

1010 WEST EULESS BLVD., SUITE 110, EULESS, TX 76040 (817) 354-6010

October 15, 2004

Mr. Bill Creger,
City of Ocala, Wastewater Monitoring Dept
151 SE Osceola Ave
Ocala, FL 34471

Re: **Telephone Memo**
Proposed Chuck E. Cheese
3500 SW College Road
Ocala, FL
Grease Trap sizing

Sir:

In our telephone conversation today, you have confirmed that our proposed in-ground grease trap sized for 500 gallons with 2gpm flow is adequate, based on the following assumptions:

- The food served is per-cooked so that grease produced from pizza toppings is produced and treated off site. On site sources of FOGs is principally from salad dressing and cleaning utensils.
- The restaurant is a "paper service" facility, only food containers, utensils and pizza pie pans are possible sources of grease and oil.
- We are providing sampling access for outflow to insure compliance with clean water standards.
- You will normally require monthly inspection and cleaning of grease traps for restaurants in your community. If sampling of the outflow indicates potential problems, Chuck E. Cheese will increase the maintenance schedule to satisfy compliance with Ocala standards.

If anyone at the building department has issue with the sizing provided in the construction documents, you have graciously agreed to allow us to refer them to you for clarification.

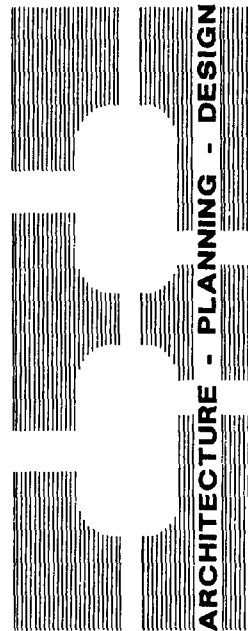
Thank you for your time in considering this issue. For your reference, I am attaching a photocopy of the trap plan and sizing, as submitted for review. If there is any further issue, please advise.

Sincerely,

Dana L. Wenzel

CC: Juan Broussard/CEC
Jeff Wohead/CEC
Joe Shultes
Parkway construction

TRADE	INDEX TO DRAWINGS:	
	SHEET DESCRIPTION	
	CS	COVER SHEET, CONTACTS & INDEX
ARCHITECTURAL	G1.0	GENERAL NOTES
	D1.0	DEMOLITION PLAN
	A1.0	DIMENSIONED FLOOR PLAN
	A1.1	ENLARGED RESTROOM PLAN
	A2.0	FLOOR FINISH PLAN / FLOOR OUTLET PLAN
	A3.0	REFLECTED CEILING PLAN/ ROOF PLAN
	A4.0	EXTERIOR ELEVATIONS
	A5.0	INTERIOR ELEVATIONS
	A5.1	INTERIOR ELEVATIONS
	A6.0	SECTIONS
	A7.1	DETAILS
	A8.0	SCHEDULES
	A9.0	FURNISHINGS PLAN
	A9.1	ENLARGED KITCHEN EQUIPMENT PLAN
	ST1.0	STUDIO 'C'
	SP1.0	SPECIFICATIONS
MECHANICAL	MEP1.1	MECHANICAL ELECTRICAL PLUMBING ROOF PLAN
	MEP1.2	MECHANICAL SPECIFICATIONS
	M1.1	MECHANICAL FLOOR PLAN
	M1.2	MECHANICAL SCHEDULES & DETAILS
	M1.3	MECHANICAL DETAILS
PLUMBING	P1.1	PLUMBING FLOOR PLAN
	P2.1	PARTIAL PLUMBING FLOOR PLAN
	P3.1	PLUMBING SCHEDULES & DETAILS
	P3.2	PLUMBING DETAILS
	P3.3	PLUMBING DETAILS
	P4.1	PLUMBING RISER DIAGRAMS
ELECTRICAL	E1.1	FLOOR PLAN LIGHTING
	E1.2	FLOOR PLAN POWER
	E2.1	KITCHEN PLAN POWER
	E2.2	STUDIO 'C' ELECTRICAL
	E3.1	ELECTRICAL SCHEDULES & RISER
CODE INFORMATION		
ZONING	SC	
BUILDING	FLORIDA BUILDING CODE	
OCCUPANCY CLASS:	A2 SMALL ASSEMBLY	



C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

THAN CONSTRUCTION OF THIS PROJECT WITHOUT EXPRESSED WRITTEN PERMISSION OF THE ARCHITECT AND CEC ENTERTAINMENT, INC. IS PROHIBITED.

780

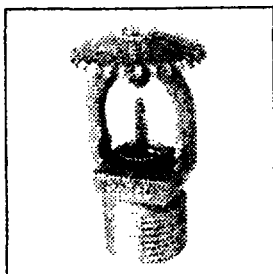
Ocala, FL

Model F1FR Quick Response Upright, Pendent & Conventional Sprinklers

Installation Wrench: Model D Sprinkler Wrench

Installation Data:

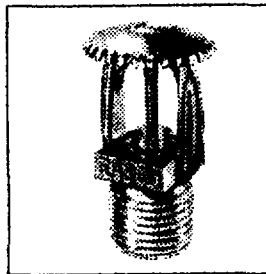
Sprinkler Type Standard-Upright (SSU) and Pendent (SSP) Deflectors Marked to Indicate Position	K Factor		Sprinkler Height	Approval Organization	Sprinkler Identification Number (SIN)	
	US	Metric			SSU	SSP
1/2" (15mm) Standard Orifice with 1/2" NPT (R1/2) Thread	5.6	80	2.2" (56mm)	1,2,3,4,5,6,7	R3625	R3615
3/4" (20mm) Large Orifice with 3/4" NPT (R3/4) Thread	8.0	115	2.3" (58mm)	1,2,3,4,7,8	R3622	R3612
5/8" (17mm) Small Orifice with 1/2" NPT (R1/2) Thread	4.2	60	2.54" (65mm)	1,2,8	R3623	R3613
3/8" (10mm) Small Orifice with 1/2" NPT (R1/2) Thread	2.8	40	2.54" (65mm)	1,2,8	R3621	R3611
10mm Orifice XLH with R3/4" Thread	4.2	60	56.1mm	4,6,7	R3624	R3614
Conventional-Install in Upright or Pendent Position						
10mm Orifice XLH with R3/4" Thread	4.2	60	56.1mm	—	R3674	
15mm Standard Orifice with 1/2" NPT (R1/2) Thread	5.6	80	56.1mm	4,6,7	R3675	
20mm Large Orifice with 3/4" NPT (R3/4) Thread	8.0	115	56.4mm	4,7	R3672	



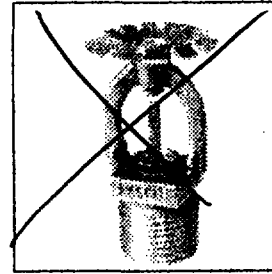
Upright



Pendent



Upright



Conventional

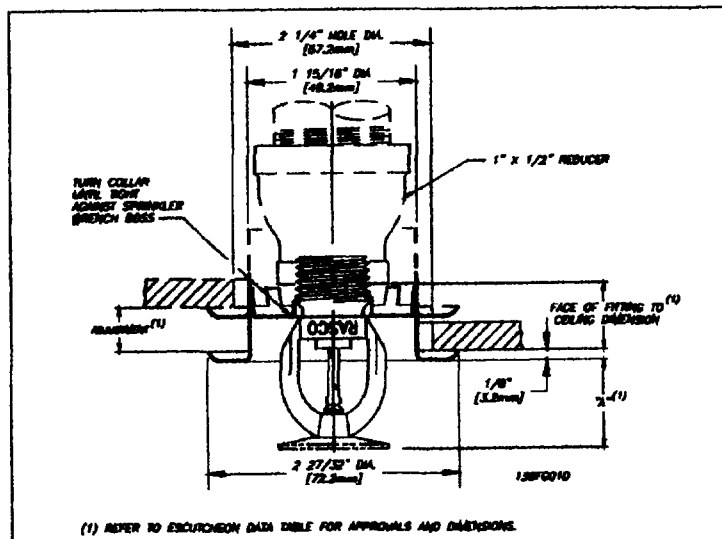
Model F1FR Quick Response Recessed Pendent Sprinkler

Installation Wrench: Model RC1 Sprinkler Wrench

Installation Data:

Nominal Orifice	Thread Size	K Factor		Sprinkler Height	Approval ⁽¹⁾ Organizations	Sprinkler Identification Number (SIN)
		US	Metric			
1/2" (15mm)	1/2" NPT (R1/2)	5.6	80	2.2" (56mm)	1,2,3,4,5,7,8	R3615
3/4" (20mm)	3/4" NPT (R3/4)	8.0	115	2.3" (58mm)	1,2,3	R3612
5/8" (17mm)	1/2" NPT (R1/2)	4.2	60	2.54" (65mm)	1,2,8	R3613
3/8" (10mm)	1/2" NPT (R1/2)	2.8	40	2.54" (65mm)	1,2,8	R3611
10mm	R3/4"	4.2	60	56.1mm	4,7	R3614

⁽¹⁾ Refer to escutcheon data table for approvals and dimensions.



Model F1FR Quick Response Vertical Sidewall Sprinkler

Installation Wrench: Model D Sprinkler Wrench

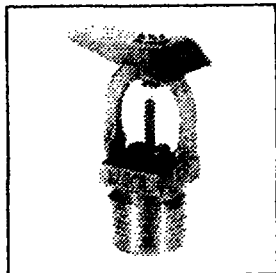
Installation Position: Upright or Pendent

Approval Type: Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	K Factor		Sprinkler Height	Approval Organizations	Sprinkler Identification Number (SIN)
		US	Metric			
1/2"	1/2" NPT (R1/2)	5.6	80	2.2" (56mm)	1, 2, 3, 6, 8	R3685
15mm	1/2" NPT (R1/2)	5.6	80	2.2" (56mm)	4 ⁽¹⁾	

⁽¹⁾ LPC Approval is for Pendent position only.



Vertical Sidewall

Orientation	Deflector to Ceiling Dimension (Min. - Max.)
Upright	4" - 12" (102mm - 305mm)
Pendent	6" - 12" (152mm - 305mm)

Model F1FR Quick Response Horizontal Sidewall Sprinkler

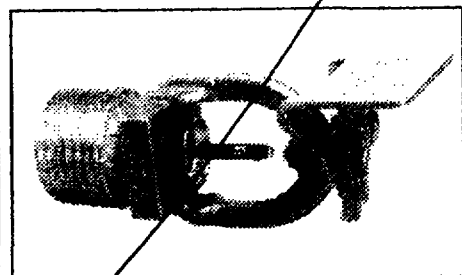
Deflector: HSW 1

Installation Wrench: Model D Sprinkler Wrench

Installation Data:

Nominal Orifice	Thread Size	K Factor		Sprinkler Length	Approval Organizations and Type of Approval		Sprinkler Identification Number (SIN)
		US	Metric		Light Hazard	Ordinary Hazard	
1/2" (15mm)	1/2" NPT(R1/2)	5.6	80	2.63" (67mm)	1,2,3,5,8	1,2,5,8	R3635

NOTE: UL and ULC Listing permits use with F1 or F2 recessed escutcheon.



Horizontal Sidewall

Installation

Quick response sprinklers are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.

The Model F1FR Recessed Quick Response Sprinklers are to be installed as shown. The Model F1 or F2 Escutcheons illustrated are the only recessed escutcheons to be used with the Model F1FR Sprinklers. The use of any other recessed escutcheon will void all approvals and negate all warranties.

When installing Model F1FR Sprinklers, use the Model D Sprinkler Wrench. When installing Model F1FR Recessed Sidewall Sprinklers, use the Model GFR1 Sprinkler Wrench. Use the Model RC1 Wrench for installing F1FR Recessed Pendent Sprinklers. Any other type of wrench may damage these sprinklers.

Temperature Ratings

Classification	Sprinkler Temperature		Max. Ambient Temp.	Bulb Color
	°C	°F		
Ordinary	57	135	100°F (38°C)	Orange
Ordinary	68	155	100°F (38°C)	Red
Intermediate	79	175	150°F (66°C)	Yellow
Intermediate	93	200	150°F (66°C)	Green
High ⁽¹⁾	141	286	225°F (107°C)	Blue

⁽¹⁾ Not available for recessed sprinklers.

Escutcheon Data

Escutcheon Model	Approvals	Adjustment	"A" Dimension	Face of Fitting to Ceiling or Wall Dimension
F1	1,2,4	$\frac{3}{4}"$ (19mm)	$\frac{3}{4}"$ (19mm)	$\frac{3}{16}" - \frac{1}{4}"$ (5mm - 24mm)
F2	1,2,3,4,5,7,8	$\frac{1}{2}"$ (13mm)	1" (25mm)	$\frac{3}{16}" - \frac{1}{4}"$ (5mm - 17mm)
FP Push-on/ Thread-off	1,2	Fully Recessed	$\frac{7}{16}"$ (11mm)	
	1,2	Fully Retracted	$\frac{15}{16}"$ (24mm)	

Maintenance

The Models F1FR and F1FR Recessed Sprinklers should be inspected quarterly and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Sprinkler Types

Standard Upright
Standard Pendent
Conventional
Sidewall (Vertical, Horizontal HSW1)
Recessed Pendent
Recessed Horizontal Sidewall HSW1

Finishes ^{(1) (2)}

Standard Finishes	
Sprinkler	Escutcheon
Bronze	Brass
Chrome Plated	Chrome Plated ⁽³⁾
White Polyester Coated	White Painted ⁽³⁾
Special Application Finishes	
Sprinkler	Escutcheon
Bright Brass	Bright Brass
Black Plated	Black Plated
Black Paint	Black Paint
Off White	Off White
Satin Chrome	Satin Chrome

⁽¹⁾ Other finishes and colors are available on special order. Consult the factory for details.

⁽²⁾ FM Approvals is limited to bronze and brass, chrome or black plated finishes only.

⁽³⁾ FP Push-on/Thread-off escutcheon

Ordering Information

Specify:

1. Sprinkler Model
2. Sprinkler Type
3. Orifice Size
4. Deflector Type
5. Temperature Rating
6. Sprinkler Finish
7. Escutcheon Type
8. Escutcheon Finish (where applicable)

Note: When Model F1FR Recessed sprinklers are ordered, the sprinklers and escutcheons are packaged separately.

The equipment presented in this bulletin is to be installed in accordance with the latest pertinent Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.

Products manufactured and distributed by Reliable have been protecting life and property for over 80 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by

Reliable®

The Reliable Automatic Sprinkler Co., Inc.

(800)431-1588

(800)848-6051

(914)668-3470

www.reliable-sprinkler.com

Sales Offices

Sales Fax

Corporate Offices

Internet Address



Revision lines indicate updated or new data

EG. Printed in U.S.A. 3/03

P/N999970027

Reliable®

Model F3QR Quick Response Dry Sprinklers

Features

1. The Model F3QR sprinkler utilizes Belleville Spring Closure Technology. Reliable is the first in the industry to produce a Quick Response Dry Concealed sprinkler utilizing this technology.
2. Styles available
 - Pendent
 - Recessed Pendent
 - Concealed
 - Horizontal Sidewall
 - Recessed Horizontal Sidewall
3. 1½" (38mm) escutcheon adjustment on pendent sprinkler.
4. ½" (13mm) escutcheon adjustment on recessed sprinkler with push-on/ thread-off FP Model Escutcheon ring.
5. ⅜" (9.5mm) cover plate adjustment on concealed sprinkler with push-on/thread-off CCP Cover Plate.
6. Attractive appearance. Employs 3mm frangible glass bulb and galvanized nipple.
7. Lengths available to accommodate installation dimensions from 2" - to - 48" (51mm - to - 1219mm), in ¼" (6mm) increments.
8. Available in a variety of plated and painted finishes.

U.S. Patent Numbers 5,775,431 and 5,967,240.

Approvals

1. Listed by Underwriters Laboratories Inc. and UL Certified for Canada (cULus)

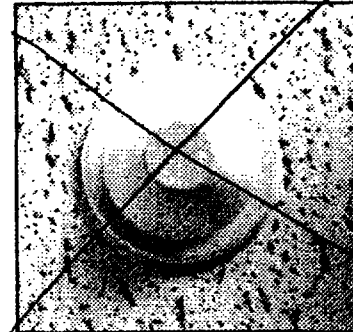
Style	Response	Sprinkler System Type	Hazard
Pendent Recessed Pendent CCP Concealed (R5714)	Quick	Wet Pipe Dry Pipe All Preaction	Light Ordinary
Horizontal Sidewall Recessed Horizontal Sidewall (R5734)			

2. Certified by FM Approvals

Style	Response	Sprinkler System Type	Hazard
Pendent (R5714)	Quick	Wet Pipe, Single Interlock Preaction	Light Ordinary, Groups 1&2
Horizontal Sidewall (R5734)	Quick	Wet Pipe, Single Interlock Preaction	Light

3. NYC MEA 258-93-E

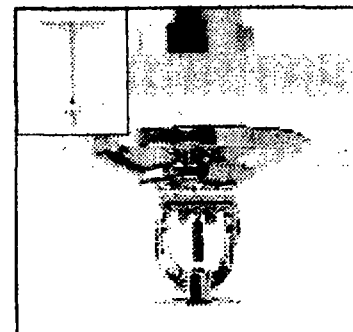
The Reliable Automatic Sprinkler Co., Inc., 525 North MacQuesten Parkway, Mount Vernon, New York 10552



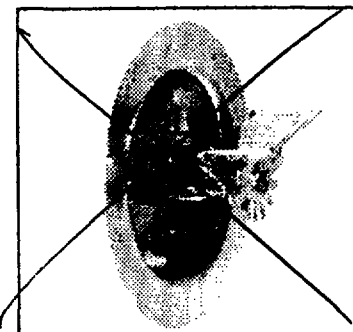
Concealed



Recessed Pendent



Pendent



Horizontal Sidewall

Model F3QR Dry Pendent Sprinkler

"A" Dim. 2" to 48" (51mm to 1219mm) in 1/4" (6mm) increments

Finishes⁽¹⁾

Sprinkler	Escutcheon
Bronze	Brass
Chrome Plated	Chrome Plated
White Painted ⁽²⁾	White

⁽¹⁾ Other finishes and colors are available on special order. Consult factory for details.

⁽²⁾ White painted sprinklers will have chrome plated cans.

Standard Temperature Ratings

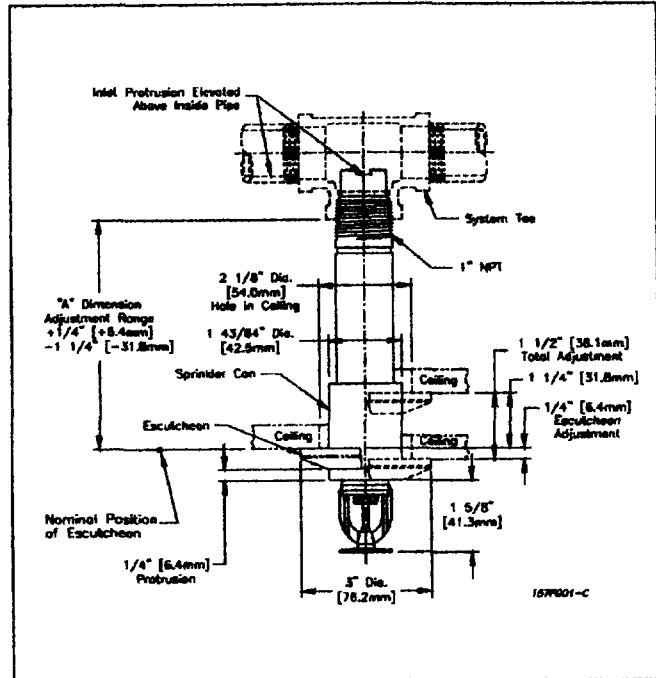
Classification	Sprinkler Temperature Rating	Max. Ambient Temp.	Bulb Color
Ordinary	135°F (57°C)	100°F (38°C)	Orange
Ordinary	155°F (68°C)	100°F (38°C)	Red
Intermediate	200°F (93°C)	150°F (66°C)	Green
High	286°F (141°C)	225°F (107°C)	Blue

Sprinkler Guard: Model C-2

Sprinkler Installation Wrench

Model G3 Sprinkler Wrench

Sprinkler Identification Number (SIN): R5714



Note: The sprinkler Can protrudes 1/4\" when escutcheon is in nominal position. Escutcheon adjustment provides +1/4\" (+6mm) to -1/4\" (-32mm) "A" dimension adjustment range.

Model F3QR Dry Recessed Pendent Sprinkler

"A" Dim. 3 1/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments

Finishes⁽¹⁾

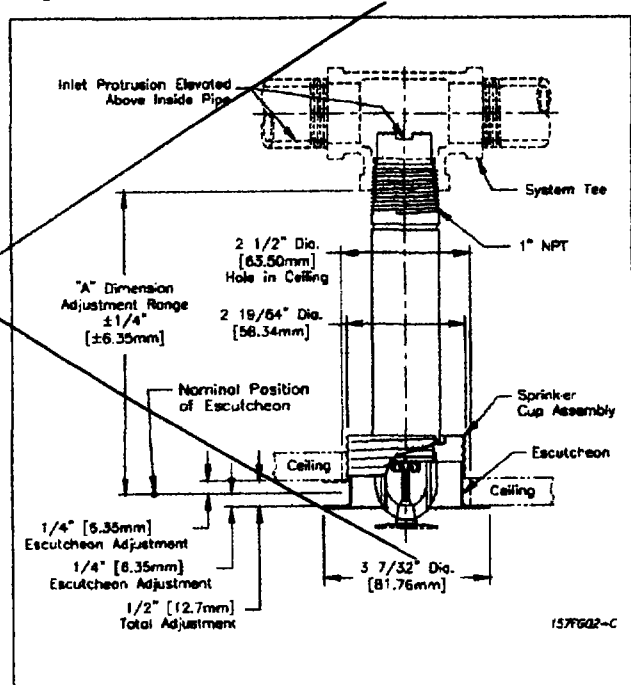
Sprinkler	Escutcheon
Bronze	Brass
Chrome Plated	Chrome Plated
White Painted	White

⁽¹⁾ Other finishes and colors are available on special order. Consult factory for details. Cup remains unfinished. Only the escutcheon will contain desired finish.

Standard Temperature Ratings

Classification	Sprinkler Temperature Rating	Max. Ambient Temp.	Bulb Color
Ordinary	135°F (57°C)	100°F (38°C)	Orange
Ordinary	155°F (68°C)	100°F (38°C)	Red
Intermediate	200°F (93°C)	150°F (66°C)	Green
High*	286°F (141°C)	225°F (107°C)	Blue

* Listed and Certified only by cULus

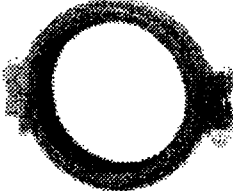
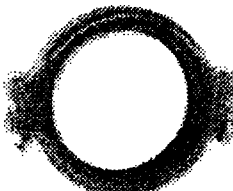


Note: Do not install the Model F3QR Dry Pendent Recessed Sprinkler in ceilings which have positive pressure in the space above.

Sprinkler Installation Wrench

Model G3 R/C Sprinkler Wrench

Sprinkler Identification Number (SIN): R5714

Figure	Nominal Size Ranges Inches	Pipe Schedule	Rated Pressure (psi)					
			UL		ULC		FM	
			Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved
 Figure 572 Patented	1¼, 1½, 2	BLT, DT, TL, MLT, MT, CT, WLS, GL, EZT	-	300	-	300	-	300
		DL, ID, UE, 5, WST	-	175	-	175	-	175
	1¼, 1½, 2, 2½, 3	XL	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3, 4	DF, C7, FF	-	300	-	300	-	300
	1½, 2, 2½, 3, 4	AMS	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 4	MF	-	300	-	300	-	300
	3	MF	-	250	-	250	-	300
	3	EZT	-	300	-	300	-	300
	1½, 2, 3, 4	FLF	-	300	-	300	-	300
	2½	FLF	-	300	-	300	-	-
	4	EZ	-	300	-	300	-	300
	6	EZ	-	250	-	250	-	300
	1¼, 1½, 2, 2½, 3, 4, 6, 8	10	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3, 4, 6, 8	40	300	300	300	300	300	300
 Figure 575 Patent Pending	1¼, 1½, 2	BLT, DT, TL, MLT, MT, CT, WLS, GL, EZT	-	300	-	300	-	300
		DL, ID, UE, 5, WST	-	175	-	175	-	175
	1¼, 1½, 2, 2½, 3	DF, XL, C7, FF	-	300	-	300	-	300
	1½, 2, 2½, 3, 4	AMS	-	300	-	300	-	300
	4	DF, C7, FLF, MF	-	250	-	250	-	300
	4	FF	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3	MF	-	300	-	300	-	300
	1½, 2½, 3	FLF	-	300	-	300	-	300
	2	FLF	-	300	-	300	-	-
	3	EZT	-	300	-	300	-	300
	4, 6	EZ	-	250	-	250	-	300
	1¼, 1½, 2, 2½, 3, 8	10	-	300	-	300	-	300
	4, 6	10	-	250	-	250	-	300
	1¼, 1½, 2, 2½, 3, 4, 6, 8	40	300	300	300	300	300	300
 Figure 705	1¼, 1½, 2	ID, UE, WST, 5	-	175	-	175	-	175
		DL	-	175	-	175	-	-
		MLT	-	300	-	-	-	-
		SL	-	300	-	300	-	-
		CT, TL, MT, WLS, GL	-	300	-	300	-	300
	1¼, 1½, 2, 3	BLT, DT	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3, 4	DF, SF	-	300	-	300	-	300
	1½, 2, 2½, 3, 4	AMS	-	300	-	300	-	300
	1¼, 1½, 2, 3	MF	-	300	-	300	-	-
	76.1mm, 165.1mm	BS1387m	-	300	-	-	-	300
	3	EZT	-	300	-	300	-	300
	4	MF	-	175	-	-	-	-
	4, 6	EZ	-	250	-	250	-	300
	1¼, 1½, 2, 2½, 3	XL	-	-	-	300	-	-
	1½, 2, 2½, 3, 4	C7	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3, 4, 5, 6	10	-	300	-	300	-	300
	8	10	-	300	-	250	-	250
	10, 12	10	-	250	-	250	-	250
	1¼, 1½, 2, 2½, 3, 4, 5, 6, 8	40	300	300	300	300	300	300
	10, 12	40	250	250	250	250	250	250
 Figure 707	1½, 2	WST, 5	-	175	-	175	-	175
	1½, 2, 2½, 3, 4	AMS, C7, SF, MF, FF	-	300	-	300	-	300
	1½, 2, 2½, 3	XL	-	300	-	300	-	300
	1½, 2, 2½, 3, 4, 5, 6	DF	-	300	-	300	-	300
	1½, 2	DT, CT, MT, GL, EZT	-	300	-	300	-	300
	1½, 2	TL, MLT, WLS	-	300	-	300	-	300
	3	EZT	-	300	-	300	-	300
	76.1mm, 165.1mm	BS1387mm	-	300	-	-	-	300
	1½, 2, 2½, 3, 4, 5, 6, 8, 10, 12	10	-	450	-	450	-	450
	14, 16	30	300	300	-	-	-	-
	1½, 2, 2½, 3, 4, 5, 6, 8, 10, 12	30, 40	500	500	550	500	500	500
	18, 20	0.375 STD	200	200	-	-	-	-
	24	0.375 STD	250	250	-	-	-	-



Material Submittal Data

for

Chuck-E-Cheese's Pizza

Store #780

3500 SW College Road, Unit 200

Ocala, Florida 34474

Reliable®

Model F1FR Model F1FR Recessed Quick Response Extended Coverage Sprinklers

A complete line of UL Listed and FM Approved quick response extended coverage sprinklers for light hazard applications.

Horizontal Sidewall Sprinklers are approved for installation 4" - 12" (102mm - 305mm) below the ceiling.

Model F1FR QREC Sprinkler Types

- Extended Coverage Pendent
- Extended Coverage Horizontal Sidewall
 - EC-8 Deflector
 - EC-9 Deflector

Model F1FR QREC Recessed Sprinkler Types

- Recessed Extended Coverage Pendent
- Recessed Extended Coverage Horizontal Sidewall:
 - EC-8 Deflector
 - EC-9 Deflector

Approval Organizations

1. Underwriters Laboratories, Inc.
2. Underwriters' Laboratories of Canada
3. Factory Mutual Research Corporation
4. NYC MEA 258-93-E

UL Listing Category

Sprinklers, Automatic & Open
Quick Response Extended Coverage Sprinkler

UL Guide Number

VNIV

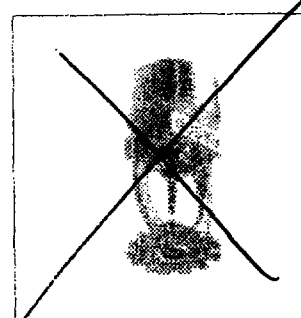
Note: Consult appropriate FM Installation Standards regarding limitations of room size, ceiling height and minimum wall fire resistance rating.

Product Description

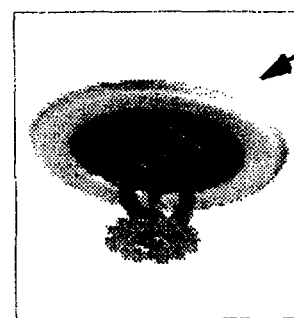
Reliable Models F1FR QREC and F1FR QREC Recessed Sprinklers are quick response sprinklers which combine the durability for a standard sprinkler with the attractive low profile of a decorative sprinkler.

The Models F1FR QREC and F1FR QREC Recessed Automatic Sprinklers utilize a 3.0mm frangible glass bulb. These sprinklers have demonstrated response times in laboratory tests which are five times faster than standard response sprinklers. This quick response enables these sprinklers to apply water to a fire much faster than standard sprinklers of the same temperature rating.

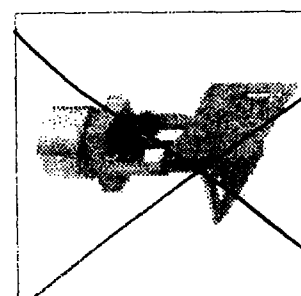
The glass bulb consists of an accurately controlled amount of special fluid hermetically sealed inside a precisely manufactured glass capsule. This glass bulb is specially constructed to provide fast thermal response.



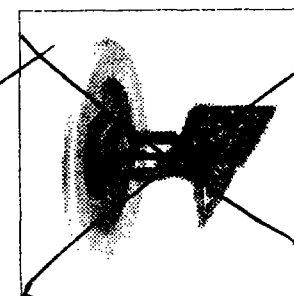
Extended Coverage Pendent



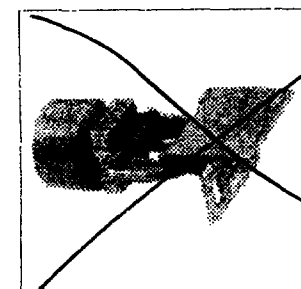
Recessed Extended Coverage Pendent



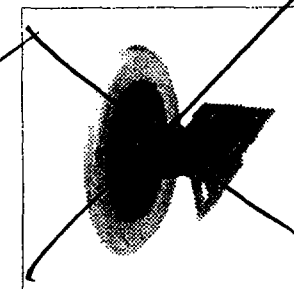
Extended Coverage Horizontal Sidewall EC-8



Recessed Extended Coverage Horizontal Sidewall EC-8



Extended Coverage Horizontal Sidewall EC-9



Recessed Extended Coverage Horizontal Sidewall EC-9

The balance of parts are made of brass, copper and beryllium nickel.

The temperature rating of the sprinkler is identified by the color of the glass bulb.

Application

Quick response sprinklers are used in fixed fire protection systems: Wet, Dry, Deluge or Preaction. Care must be exercised that the orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of the National Fire Protection Association or the approving authority having jurisdiction. Quick response sprinklers are intended for installation as specified in NFPA 13.

Model F1FR Quick Response Extended Coverage Pendent Sprinkler

Deflector: EC

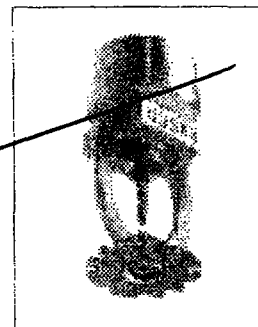
Installation Wrench: Model D Sprinkler Wrench

Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Temperature Rating ⁽¹⁾	Approval Organizations	Sprinkler Identification Number (SIN)
		US	Metric				
1/32" (20mm)	3/4" NPT (R3/4)	8.0	115	2.2" (56.1mm)	135°F (57°C) 155°F (68°C)	1,2,3,4	R4842
1/2" (15mm)	1/2" NPT (R1/2)	5.6	80	2.1" (53.4mm)	135°F (57°C) 155°F (68°C)	1,2,4	R4845

⁽¹⁾ FM Approval of pendent sprinkler - 135°F (57°C) only



Model F1FR Recessed Quick Response Extended Coverage Pendent Sprinkler

Deflector: EC

Installation Wrench: Model RC1 Sprinkler Wrench

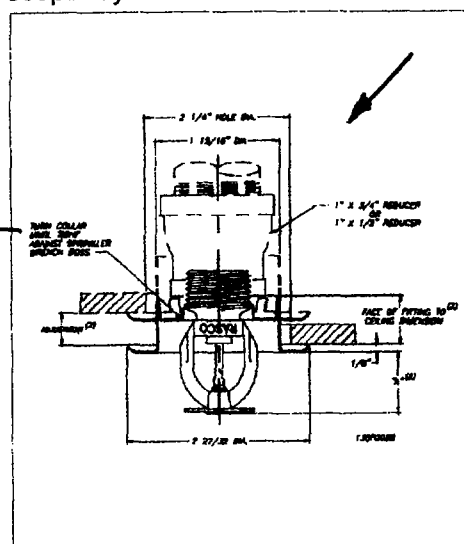
Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Temperature Rating ⁽¹⁾	Approval Organizations	Sprinkler Identification Number (SIN)
		US	Metric				
1/32" (20mm)	3/4" NPT (R3/4)	8.0	115	2.2" (56.1mm)	135°F (57°C) 155°F (68°C)	1,2,3,4	R4842
1/2" (15mm)	1/2" NPT (R1/2)	5.6	80	2.1" (53.4mm)	135°F (57°C) 155°F (68°C)	1,2,4	R4845

⁽¹⁾ FM Approval of recessed sprinkler — 135°F (57°C) only.

⁽²⁾ Refer to escutcheon data table for approvals and dimensions.



COVERAGE AREA			
Flow Rate gpm (L/min)	Pressure, psi (bar)		Maximum Coverage Area Width x Length ft. x ft. (m x m)
	K = 8.0 (115)	K = 5.6 (80)	
26 (98.4)	10.6 (0.7)	21.6 (1.5)	16 x 16 (4.9 x 4.9)
33 (125.0)	17.0 (1.2)	34.7 (2.4)	18 x 18 (5.5 x 5.5)
40 (151.4)	26.0 (1.7)	51.0 (3.5)	20 x 20 (6.0 x 6.0) ⁽²⁾

⁽²⁾ 135°F (57°C) only for both Pendent and Recessed Pendent.

Model F1FR Quick Response Extended Coverage Horizontal Sidewall Sprinkler

Deflector: EC-8

Installation Wrench: Model D Sprinkler Wrench

Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Approval Organizations	Temperature Rating	Sprinkler Identification Number (SIN)
		US	Metric				
1/2" (15mm)	1/2" NPT (R1/2)	5.6	80	2.8" (71.1mm)	1,2,3,4	135°F (57°C) 155°F (68°C) 175°F (79°C)	R4865

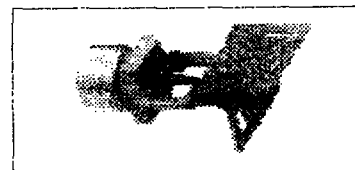


Figure	Nominal Size Ranges Inches	Pipe Schedule	Rated Pressure (psi)					
			UL		ULC		FM	
			Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved
 Figure 772 Patented	1¼	WST	-	175	-	175	-	175
	1¼, 1½, 2	UE, ID	-	175	-	175	-	175
		BLT, DT, CT, MLT, MT, WLS, GL	-	300	-	300	-	300
	1¼, 1½, 2, 2½, 3	DF, SF, MF	-	300	-	300	-	300
	4	DF, SF	-	300	-	300	-	300
	4	MF	-	250	-	250	-	250
	1½, 2	DL, UE, WST	-	175	-	175	-	-
	76.1mm, 165.1mm	BS1387m	-	300	-	-	-	300
	3	EZT	-	300	-	300	-	300
	4, 6	EZ	-	250	-	250	-	300
	1¼, 1½, 2	XL, TL	-	300	-	300	-	300
	2½, 3	XL	-	-	-	300	-	-
	1½, 2, 2½, 3, 4	AMS, C7	-	300	-	300	-	300
	1¼, 5, 6	10	-	300	-	300	-	300
	1½, 2, 2½, 3, 4	10	-	500	-	500	-	500
	8	10	-	400	-	400	-	400
	10, 12	10	-	250	-	250	-	250
	1¼, 5	40	300	300	300	300	300	300
	1½, 2, 2½, 3, 4	40	500	500	500	500	500	500
	6	40	400	400	400	400	300	300
	8	40	450	450	450	450	450	450
	10, 12	40	250	250	250	250	250	250
 Figure 71	2	UE, ID, WST, 5	-	175	-	175	-	175
		AMS, BLT, DF, DT, SF, XL, C7, CT, TL, LS, MF, MLT, MT, WLS, GL, FF	-	250	-	250	-	250
	2½, 3	AMS, DF, SF, XL, C7, MF, FF, 10	-	250	-	250	-	250
	3	EZT	-	250	-	250	-	250
	4	AMS, DF, SF, C7, EZ, MF, FF, 10	-	250	-	250	-	250
	5	DF, SF, 10	-	250	-	250	-	250
	6	DF, SF, C7, EZ, 10	-	250	-	250	-	250
	8, 10, 12	10	-	250	-	250	-	250
 Figure 40-5*	1¼ X ¼, ¾, 1 1½ X ½, ¾, 1 2 X ¾, 1		BLT, DF, DL, DT, SF, XL, UE, CT, TL, ID, MF, MLT, MT, WLS, WST, GL, EZT, 5, 10		-	175	-	175
	1½ X ½, ¾, 1 2 X ¾, 1		AMS, C7, EZT, FF		-	175	-	175
	2½ X ½, ¾, 1		AMS, BLT, DF, DT, SF, XL, C7, TL, MF, EZT, FF, 10		-	175	-	175
	1¼ X ½, ¾, 1 1½ X ½, ¾, 1 2 X ¾, 1 2½ X ½, ¾, 1		40		175	175	175	175
					175	175	175	175
					175	175	175	175
					175	175	175	175

* Listed/Approved with NPT and BSP threaded outlets

Central products are UL and ULC Listed and FM Approved for the pressure ratings shown for use in Fire Protection Systems (automatic sprinkler, open sprinkler and standpipe) and connections to such systems. The charts were developed from the latest Listings and Approval data available at the time of publication. Listings are subject to changes and additions by the approval bodies. For Dry Pipe systems or Freezer Systems, use Tri-Seal Gaskets and petroleum free silicone lubricant. Follow installation instructions provided in individual data sheets.

Pipe Schedule Key

- AMS - Steady Flow Listed/Approved steel sprinkler pipe manufactured by AMS Tube Corp.
- BLT - Black Light Wall Threadable Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- DF - Dyna-Flow Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- DL - Dyna-Light Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- DT - Dyna-Thread Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- SF - Super-Flow Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- XL - Extra Light Weight Listed/Approved steel sprinkler pipe manufactured by Allied Tube and Conduit.
- EF - Eddy Flow Listed/Approved steel sprinkler pipe manufactured by Bull Moose Tube Company.
- EL - Eddy Light Listed/Approved steel sprinkler pipe manufactured by Bull Moose Tube Company.
- ET - Eddy Thread Listed/Approved steel sprinkler pipe manufactured by Bull Moose Tube Company.
- UE - Ultra-Eddy Listed/Approved steel sprinkler pipe manufactured by Bull Moose Tube Company.
- C7 - Central 7 Listed/Approved steel sprinkler pipe manufactured by Central Grooved Piping Products.
- CT - Central Thread Listed/Approved steel sprinkler pipe manufactured by Central Grooved Piping Products.
- TL - TL Listed/Approved steel sprinkler pipe manufactured by Central Grooved Piping Products.
- LS - Listed/Approved steel sprinkler pipe manufactured by Century Tube Corporation.
- ID - IDOD Listed/Approved steel sprinkler pipe manufactured by IDOD Systems.
- EZ - EZ-Flow Listed/Approved steel sprinkler pipe manufactured by Northwest Pipe and Casting Company.
- FLF - Fire Line Flow Listed/Approved steel sprinkler pipe manufactured by Western International Forest Products.
- MF - Mega Flow Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- MLT - Mega Light Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- MT - Mega Thread Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- SL - Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- WLS - WLS Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- WST - WST Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- GL - GL Listed/Approved steel sprinkler pipe manufactured by Wheatland Tube Company.
- EZT - EZ Thread Listed/Approved steel sprinkler pipe manufactured by Youngstown Tube Company.
- FF - Fire-Flo Listed/Approved steel sprinkler pipe manufactured by Youngstown Tube Company.

Note: Cut and roll grooved references are for pipe runs and also grooved outlets.

Figure	Nominal Size (Inches)	Rated Pressure (PSI)		
		UL	ULC	FM
513 D/R	1	175	175	175
	1½	175	175	175
	2	175	175	175
513	1½	175	175	175
	2	175	175	175
	2½	175	175	175
	3	175	175	175
	4	175	175	175
	6	175	175	175
590F	2½	300	300	300
	3	300	300	300
	4	300	300	300
	5	300	300	300
	6	300	300	300
590FR	8	300	300	300
	2½	300	300	300
	3	300	300	300
	4	300	300	300
570	5	300	300	300
	6	300	300	300
	8	300	300	300
	10	175	175	175
	2½	175	175	175
	3	175	175	175
	4	175	175	175
570	5	175	175	175
	6	175	175	175
	8	175	175	175
	10	175	175	175
	2½	300	300	300
	3	300	300	300
570	4	300	300	300
	5	300	300	300
	6	300	300	300
	8	300	300	300
	10	300	300	300

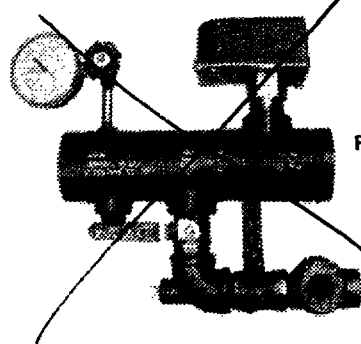


Figure 513 D/R and 513 Manifold

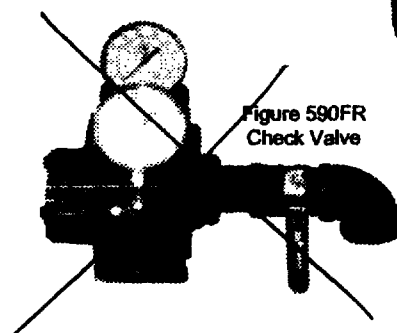


Figure 590F Check Valve

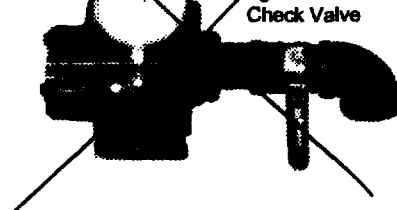


Figure 590FR Check Valve

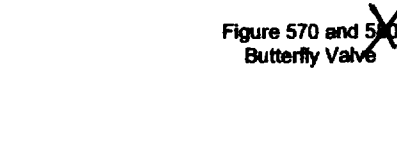


Figure 570 and 570 Butterfly Valve

Grooved End Fittings



Figure ADACAP®
Patented



Figure 210/510
90° Elbow

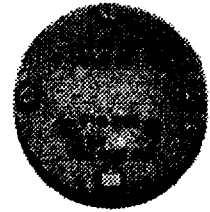


Figure 260
End Cap

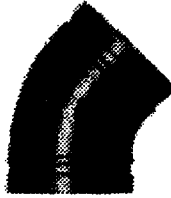


Figure 201/501
45° Elbow



Figure 219/519
Tee

Figure	Nominal Size Inches	Rated Pressure (psi)		
		UL	ULC	FM
ADACAP®	1½ X ½, ¾, 1	300	300	300
	2 X ½, ¾, 1	300	300	300
	2½ X ½, ¾, 1	300	300	300
121 Reducing Tee	2½ X 2	500	500	-
	3 X 2, 2½	500	500	-
	4 X 2, 2½, 3	500	500	-
	6 x 2 - 4	500	500	-
150 Concentric Reducer	8 x 2 - 6	400	400	-
	3 x 2 - 8 x 6	400	400	500
	10 x 6	400	400	400
201 45° Elbow	10 x 8	400	400	300
	12 x 8, 10	500	400	300
	1¼ - 3, 5	500	500	500
	76.1mm	300	-	300
210 90° Elbow	4	500	400	500
	165.1mm	300	-	300
	6	400	400	400
	8, 10, 12	450	450	450

Figure	Nominal Size Inches	Rated Pressure (psi)		
		UL	ULC	FM
219 Tee	1¼ - 3, 5	500	500	500
	76.1mm	300	-	300
	4	500	400	500
	165.1mm	300	-	300
	6	400	400	400
260 End Cap	8, 10, 12	450	450	450
	1¼ - 4	500	500	500
	76.1mm	300	-	300
	5 - 6	400	400	400
	165.1mm	300	-	300
501 45° Elbow	8 - 10	450	450	450
	12	250	250	250
	1¼ - 3	300	300	300
	4	300	300	300
510 90° Elbow	6 - 8	300	300	300
	1¼ - 3	300	300	300
	4	300	300	300
510DE Drain Elbow	6 - 8	300	300	300
	2½ - 4	300	300	300
519 Tee	1¼ - 3	300	300	300
	4	300	300	300
	6 - 8	300	300	300

* Listed/Approved with NPT and BSP threaded outlets

Threaded Fittings



Figure 814
Tee



Figure 811
90° Elbow



Figure 815
Reducing Tee



Figure 812
90° Reducing Elbow



Figure 816
Reducing Coupling



Figure 813
45° Elbow



Figure 817
Cross

Figure	Nominal Size Inches	Rated Pressure (psi)	
		UL	FM
811 90° Elbow	½, ¾	300	300
	1, 1¼	300	300
	1½, 2, 2½	300	300
812 90° Reducing Elbow	¾ X ½	300	300
	1 X ½, ¾	300	300
	1¼ X ½, ¾, 1	300	300
	1½ X ¾, 1, 1¼	300	300
	2 X ¾, 1, 1½	300	300
813 45° Elbow	½, ¾	300	300
	1, 1¼, 1½	300	300
	2, 2½	300	300
814 Tee	½, ¾	300	300
	1, 1¼, 1½	300	300
	2, 2½	300	300
815 Reducing Tee	¾ X ¾ X ½	300	300
	¾ X ¾ X 1	300	300
	1 X ½ X 1	300	300
	1 X ¾ X ½, ¾	300	300
	1 X ¾ X 1	300	300
	1 X 1 X ½, ¾	300	300
	1 X 1 X 1	300	300
	1 X 1 X 1½	300	300
	1¼ X 1 X ½, ¾, 1, 1¼	300	300
	1¼ X 1 X 1½	300	300
	1¼ X 1¼ X ½, ¾, 1	300	300
	1¼ X 1¼ X 1½, 2	300	300
	1½ X 1 X ½, ¾, 1, 1½	300	300
	1½ X 1¼ X ½, ¾, 1	300	300
	1½ X 1½ X ¾, 1, 1¼	300	300
	1½ X 1½ X 2	300	300
	2 x 1 x 2	300	300
	2 X 1¼ X 2	300	300
	2 X 1½ X ½, ¾, 1, 1½, 2	300	300
	2 X 2 X ½, ¾, 1, 1¼, 1½	300	300
	2½ X 2 X ¾	300	300
816 Red. Coupling	¾ X ½	300	300
	1 X ½, ¾	300	300



Figure 818
Coupling



Figure 820
Cap



Figure 825
Extension Piece



Figure 827
Hex Bushing



Figure 830
Brass Seat Union

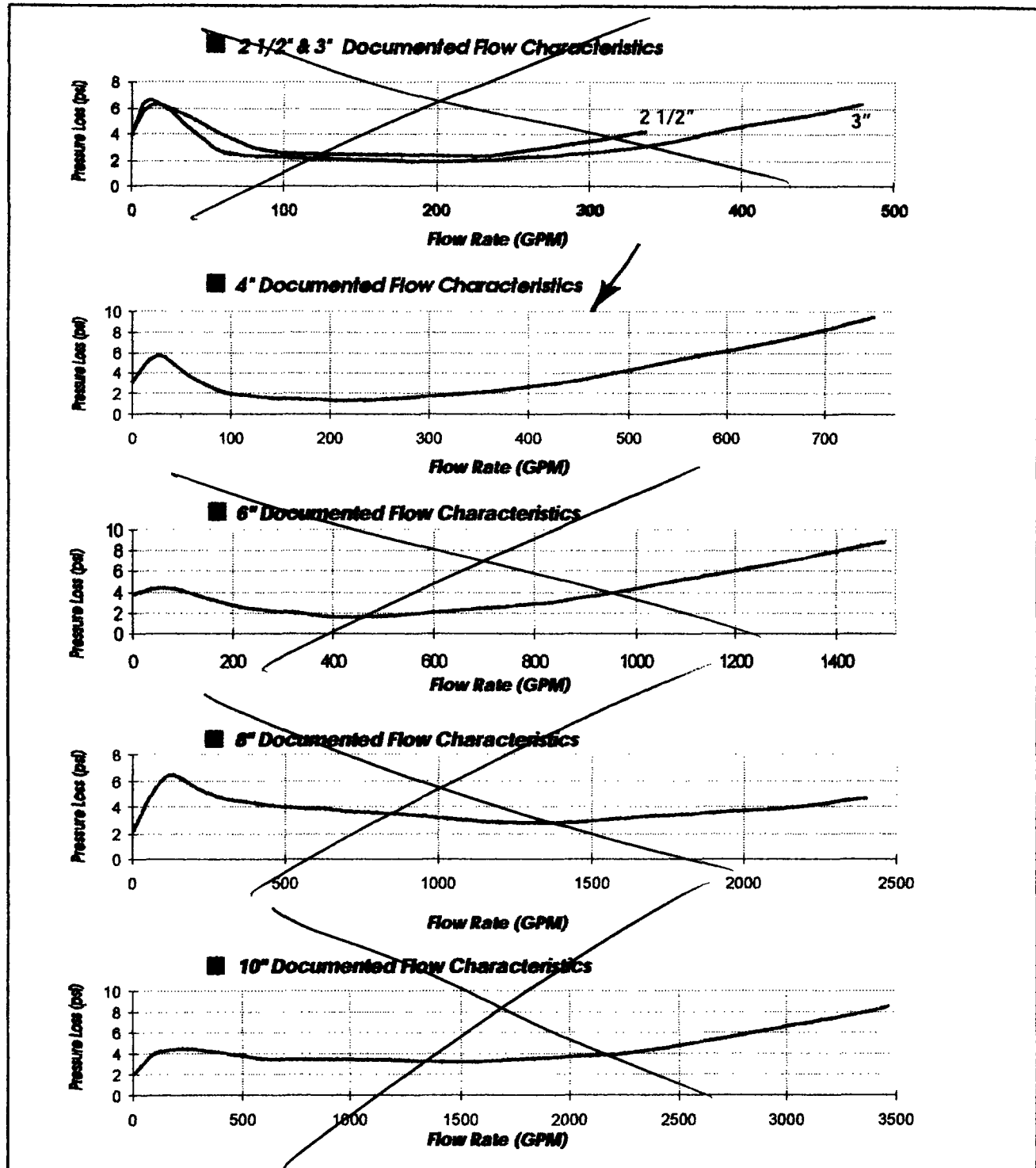


Figure 719
Cast Iron Plug

Figure	Nominal Size Inches	Rated Pressure (psi)	
		UL	FM
817 Cross	1 X 1 X 1 X 1	300	300
	1¼ X 1¼ X 1¼ X 1¼	300	300
	1½ X 1½ X 1½ X 1½	300	300
	2 X 2 X 2 X 2	300	300
	1¼ X 1¼ X 1 X 1	300	300
	1½ X 1½ X 1 X 1	300	300
	2 X 2 X 1 X 1	300	300
818 Coupling	½, ¾	300	300
	1, 1¼, 1½	300	300
	2, 2½	300	300
820 Cap	½, ¾	300	300
	1, 1¼, 1½	300	300
	2, 2½	300	300
825 Extension Piece	½ X 1½, 2	300	-
	¾ X 1½, 2	300	-
827 Hex Bushing	1 X ½, ¾	300	300
	1¼ X 1	300	300
	1½ X 1, 1¼	300	300
	2 X 1, 1¼, 1½	300	300
830 Brass Seat Union	½, ¾	300	300
	1, 1¼, 1½, 2	300	300
	2½	-	300
719 Cast Iron Plug	½, ¾, 1	175	250
	1¼, 1½, 2	175	250

MODEL 3000SS Double Check Detector Assembly

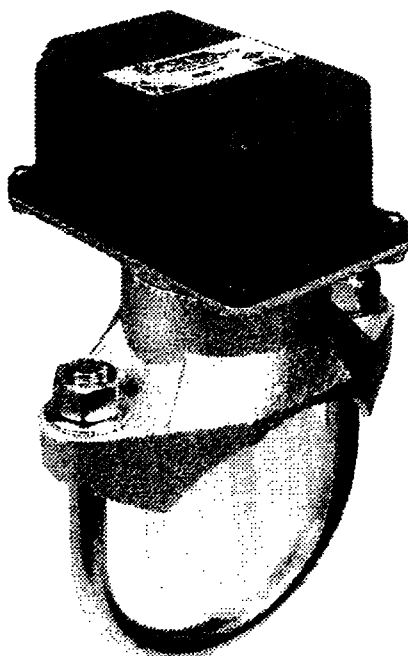
Extended Flow Curves Horizontal and Vertical Position (UL Documented to 150 % of Rated Flow)



OR EQUAL



VSR-F VANE TYPE WATERFLOW ALARM SWITCH WITH RETARD



U.S. Pat. No. 3921989
Canadian Pat. No. 1009680
Other Patents Pending
Potter Electric, Rd., 1990

UL, UL C and CSFM Listed, FM and LPCB Approved, NYMEA Accepted, CE Marked

Service Pressure: Up to 450 PSI (31 BAR)

Minimum Flow Rate for Alarm: 10 GPM (38 LPM)

Maximum Surge: 18 FPS (5,5 m/s)

Contact Ratings: Two sets of SPDT (Form C)
15.0 Amps at 125/250VAC
2.0 Amps at 30VDC Resistive

Conduit Entrances: Two knockouts provided for 1/2" conduit

Environmental Specifications:

- Suitable for indoor or outdoor use with factory installed gasket and die-cast housing.
- NEMA 4/IP54 Rated Enclosure - use with appropriate conduit fitting.
- Temperature Range: 40°F/120°F, 4,5°C/49°C
- Non-corrosive sleeve factory installed in saddle.

Caution: This device is not intended for applications in explosive environments.

Sizes Available: Steel Pipe schedules 10 thru 40, sizes 2" thru 8"
BS 1387 pipe 50mm thru 200mm

Note: For copper or plastic pipe use Model VSR-CF.

Service Use:

Automatic Sprinkler	NFPA-13
One or two family dwelling	NFPA-13D
Residential occupancy up to four stories	NFPA-13R
National Fire Alarm Code	NFPA-72

Optional: Cover Tamper Switch Kit, Stock No. 0090018

GENERAL INFORMATION

The Model VSR-F is a vane type waterflow switch for use on wet sprinkler systems. It is UL Listed and FM Approved for use on steel pipe; schedules 10 through 40, sizes 2" thru 8" (50mm thru 200mm).

LPC approved sizes are 2" thru 8" (50mm thru 200mm).

The unit may also be used as a sectional waterflow detector on large systems.

The unit contains two single pole, double throw, snap action switches and an adjustable, instantly recycling pneumatic retard. The switches are actuated when a flow of 10 gallons per minute (38 LPM) or more occurs downstream of the device. The flow condition must exist for a period of time necessary to overcome the selected retard period.

ENCLOSURE: The unit is enclosed in a general purpose, die-cast housing. The cover is held in place with two tamper resistant screws which require a special key for removal. A field installable cover tamper switch is available as an option which may be used to indicate unauthorized removal of the cover. See bulletin no. 5400775 for installation instructions of this switch.

INSTALLATION: See Fig.2

These devices may be mounted on horizontal or vertical pipe. On horizontal pipe they should be installed on the top side of the pipe where they will be accessible. The units should not be installed within 6" (15cm) of a fitting which changes the direction of the waterflow or within 24" (60 cm) of a valve or drain.

Drain the system and drill a hole in the pipe using a circular saw in a slow speed drill. The 2" (50mm) and 2 1/2" (65mm) devices require a hole with a diameter of 1 1/4" + 1/8" - 1/16" (33mm ±2mm). All other sizes require a hole with a diameter of 2" ±1/8" (50mm ±2mm).

Clean the inside pipe of all growth or other material for a distance equal to the pipe diameter on either side of the hole.

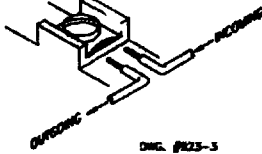
Roll the vane so that it may be inserted into the hole; do not bend or crease it. Insert the vane so that the arrow on the saddle points in the direction of the waterflow. Install the saddle strap and tighten nuts alternately to an eventual 50 ft.-lbs. (68 n-m) of torque (see Fig. 2). The vane must not rub the inside of the pipe or bind in any way.

Specifications subject to change without notice.

Potter Electric Signal Company • 2081 Craig Road, St. Louis, MO, 63146-4161 • Phone: 800-325-3836/Canada 888-882-1833 • www.pottersignal.com

FIG. 1

**SWITCH TERMINAL
CONNECTIONS
CLAMPING PLATE
TERMINAL**

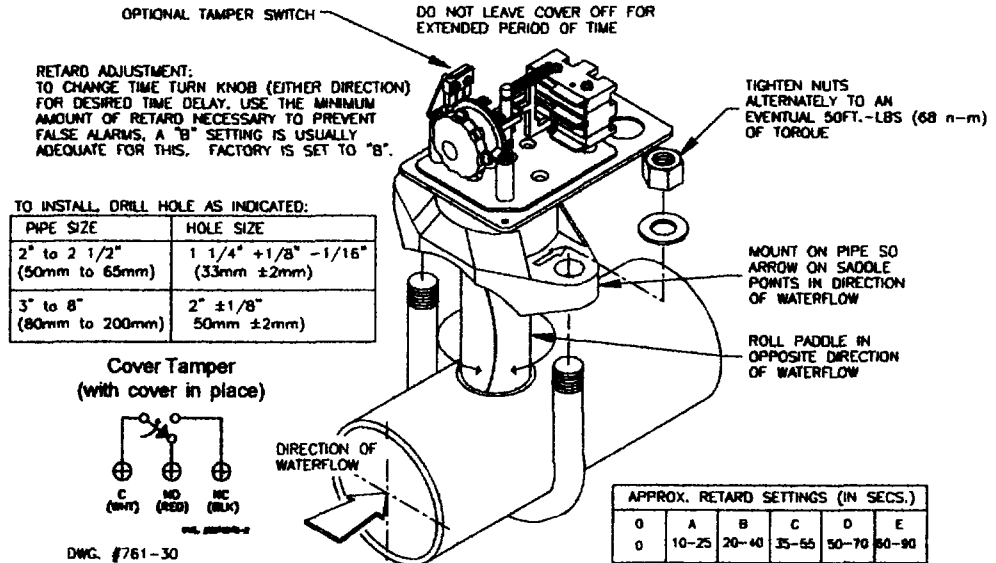


DWG. #723-3

CAUTION:

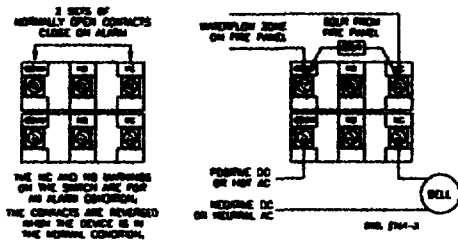
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire becomes dislodged from under the terminal.

FIG. 2



DWG. #761-30

FIG. 3 TYPICAL ELECTRICAL CONNECTIONS

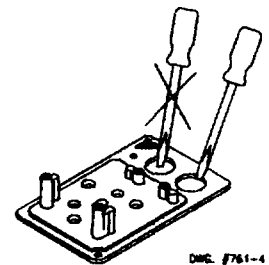


NOTES:

1. The Model VSR-F has two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local audible or visual annunciator.
2. A condition of LPC Approval of this product is that the electrical entry must be sealed to exclude moisture.
3. For supervised circuits see "Switch Terminal Connections" drawing and caution note (Fig. 1).

FIG. 4

To remove knockouts: Place screwdriver at edge of knockout, not in the center.



DWG. #761-4

APPLICATION WARNING!

Due to the possibility of unintended discharges caused by pressure surges, trapped air, or short retard times, waterflow switches that are monitoring wet pipe sprinkler systems should not be used as the sole initiating device to discharge AFFF, deluge, or chemical suppression systems.

TESTING

The frequency of inspection and testing for the model VSR-F and its associated protective monitoring system should be in accordance with applicable NFPA Codes and Standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

If provided, the inspector's test valve, that is usually located at the end of the most remote branch line, should always be used for test purposes. If there are no provisions for testing the operation of the flow detection device on the system, application of the VSR-F is not recommended or advisable.

A minimum flow of 10 gpm (38 Lpm) is required to activate this device.

IMPORTANT NOTICE: Please advise the person responsible for testing of the fire protection system that this system must be tested in accordance with the testing instructions.



6" BELL SHOWN

UL Listed, FM Approved

Sizes Available: 6" (150mm), 8" (200mm) and 10" (250mm)

Voltages Available: 24VAC
120VAC
12VDC (10.2 to 15.6) Polarized
24VDC (20.4 to 31.2) Polarized

Service Use: Fire Alarm
General Signaling
Burglar Alarm

Environment: Indoor or outdoor use (See Note 1)
-40° to 150°F (-40° to 66°C)
(Outdoor use requires weatherproof
backbox.)

Termination: 4 No. 18 AWG stranded wires

Finish: Red powder coating

Optional: Model BBK-1 weatherproof backbox

These vibrating type bells are designed for use as fire, burglar or general signaling devices. They have low power consumption and high decibel ratings. The unit mounts on a standard 4" (101mm) square electrical box for indoor use or on a model BBK-1 weatherproof backbox for outdoor applications. Weatherproof backbox model BBK-1, Stock No. 1500001.

ALL DC BELLS ARE POLARIZED AND HAVE BUILT-IN TRANSIENT PROTECTION:

SIZE INCHES (mm)	VOLTAGE	MODEL NO.	STOCK NO.	CURRENT (MAX.)	TYPICAL dB AT 10 FT. (3m) (2)	MINIMUM dB AT 10 FT. (3m) (1)
6 (150)	12VDC	PBD126	1708012	.12A	85	76
8 (200)	12VDC	PBD128	1708012	.12A	90	76
10 (250)	12VDC	PBD1210	1710012	.12A	92	76
6 (150)	24VDC	PBD246	1708024	.06A	87	76
8 (200)	24VDC	PBD248	1708024	.06A	91	79
10 (250)	24VDC	PBD2410	1710024	.06A	94	79
6 (150)	24VAC	PBA246	1808024	.17A	91	76
8 (200)	24VAC	PBA248	1808024	.17A	94	76
10 (250)	24VAC	PBA2410	1810024	.17A	94	76
6 (150)	120VAC	PBA1206	1808120	.05A	92	82
8 (200)	120VAC	PBA1208	1808120	.05A	99	82
10 (250)	120VAC	PBA12010	1810120	.05A	99	85

Notes:

1. Minimum dB ratings are calculated from integrated sound pressure measurements made at Underwriters Laboratories as specified in UL Standard 464. UL temperature range is -30° to 150°F (-34° to 66°C).
2. Typical dB ratings are calculated from measurements made with a conventional sound level meter and are indicative of output levels in an actual installation.

DIMENSIONS
INCHES (mm)

FIG. 1

BELLS

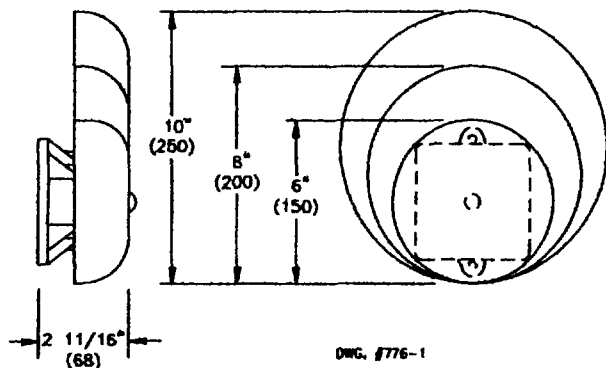


FIG. 2 WEATHERPROOF BACKBOX

BOX HAS ONE THREADED 1/2" CONDUIT ENTRANCE

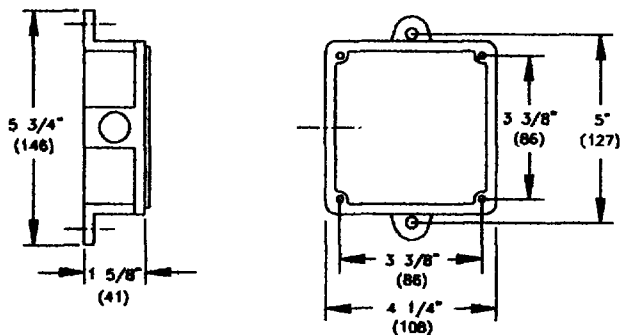
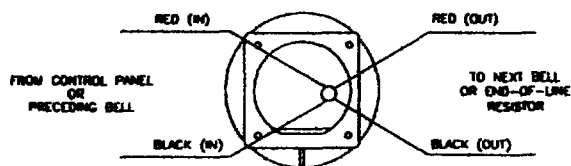


FIG. 3

WIRING (REAR VIEW)

D.C. BELLS (OBSERVE POLARITY)

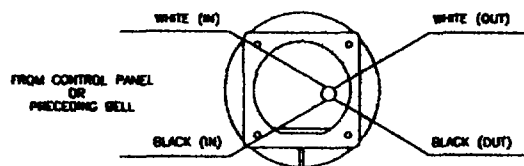


CAUTION:
WHEN ELECTRICAL SUPERVISION IS REQUIRED USE IN AND OUT LEADS AS SHOWN.

NOTES:

1. OBSERVE POLARITY TO RING D.C. BELLS.
2. RED WIRES POSITIVE (+)
3. BLACK WIRES NEGATIVE (-)

A.C. BELLS



CAUTION:
WHEN ELECTRICAL SUPERVISION IS REQUIRED USE IN AND OUT LEADS AS SHOWN.

NOTES:

1. WHEN USING A.C. BELLS, TERMINATE EACH EXTRA WIRE SEPARATELY AFTER LAST BELL.
2. END-OF-LINE RESISTOR IS NOT REQUIRED ON A.C. BELLS.

DWG. #776-3

INSTALLATION

1. The bell should be mounted a minimum of 8 ft. (2.4m) from the floor or as close to the ceiling as possible.
2. Remove the gong.
3. Connect wiring (see Fig. 3).
4. Mount bell mechanism to backbox (bell mechanism must be mounted with the striker pointing down).
5. Reinstall the gong (be sure that the gong positioning pin, in the mechanism housing, is in the hole in the gong).
6. Test all bells for proper operation and observe that they can be heard where required (bells must be heard in all areas as designated by the authority having jurisdiction).

No. 2193 P.



www.candofp.com

"Complete Fire Protection Service"

December 17, 2004

Dennis Lawson
Fire Inspector - City of Ocala
Ph: 352-629-8513
Fx: 352-629-8507

RE: Chuck-E-Cheese's, Ocala
Permit #BLD04-2189
3500 SW College Road #200

Attn Dennis:

I am writing this letter to respond to your verbal request of adding sprinklers above the ceiling in the dining area for the above referenced project. You brought to our attention that the wall separating the dining area and the unused space only goes about 8-12 inches above the ceiling. In your opinion, this creates the possibility of a fire starting in the unused space and "spilling" over the partition into the ceiling space above the dining area.

We agree with your concern but could not find a specific section in the NFPA 13 code in which to design for this type of installation. Typically, a fire rated partition separating the two different hazards would have solved this situation. Since there is no fire separation, we propose to add twelve(12), 200°F, QR, upright sprinklers spaced at 130 sq.ft. or less to the other side of the partition wall above the lay-in ceiling tile in the dining area. Please refer to attached revised FP1 drawing for sprinkler head layout.

Thank you for bringing this to our attention and we hope this resolves the issue.

Sincerely,

Marty Hoglievina

Resolves w/Th Smoke wall

R Rowe 12-21-04

3511 Century Boulevard, Suite 1 • Lakeland, Florida 33811 • 863-577-0485 • Fax 863-577-0486

24-HOUR EMERGENCY SERVICE

1-800-4-A-FLORIDA-1-800-426-3742

Dec-17-2004 11:30AM IFP FLORIDA 863 577 0486

___ BLDG. ___ ELECTRICAL ___ FIRE DEPT. ___ IND. WASTE

BUILDING PLAN REVIEW WORKSHEET

DATE: 10/29/2004

BUILDING PERMIT # BLD04-2009 INTERIOR RENOVATION

PROJECT TITLE: CHUCK E CHEESE #780/INTERIOR RENOVATION

ADDRESS: 3500 SW COL RD #200

COMPLEX:

CONTACT: PARKWAY CONSTRUCTION TEL:

ENGINEER : <undefined value> TEL: <undefined value>

ARCH./DESIGNER: <undefined value> TEL: <undefined value>

CONTRACTOR: PARKWAY CONSTRUCTION TEL:

PARCEL NO: 23728-000-00 DISTRICT: <undefined value>

THRESHOLD BUILDING YES _____ NO _____

UNDERGROUND UTILITIES YES _____ NO _____

SITE PLAN YES _____ NO _____

3 SETS SEALED PLANS YES _____ NO _____

2 SETS FLORIDA ENERGY YES _____ NO _____

SEPTIC TANK PERMIT REQUIRED - YES _____ NO _____ RECEIVED- YES _____ NO _____

SDC YES _____ NO _____

FIRE DEPARTMENT - YES _____ NO _____

ELECTRICAL - YES _____ NO _____

PLUMBING-YES _____ NO _____ HVAC-YES _____ NO _____ HANDICAP REQUIREMENTS: YES _____ NO _____

FIRE SPRINKLER YES _____ NO _____ COMPANY _____

BUILDING TYPE _____ SQUARE FOOTAGE _____

ANY MODIFICATION: YES _____ NO _____

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

REVIEWED

CITY OF OCALA
BUILDING ELECTRIC DIVISION

DATE 11-2-04

BY R. R. ...

① no fire alarm system, but fire exit light system, see permit
② All electrical wiring shall be installed per NEC 2002

OCALA FIRE RESCUE

Fire Safety Management Division

Fire Marshal Barry Britton

Fire Investigator Dennis Lawson

Fire Inspector Scott Bolton

Telephone: 352-629-8513

To: Plans Examiner - Building Department

From: Dennis Lawson – Fire Inspector 

Date: November 8, 2004

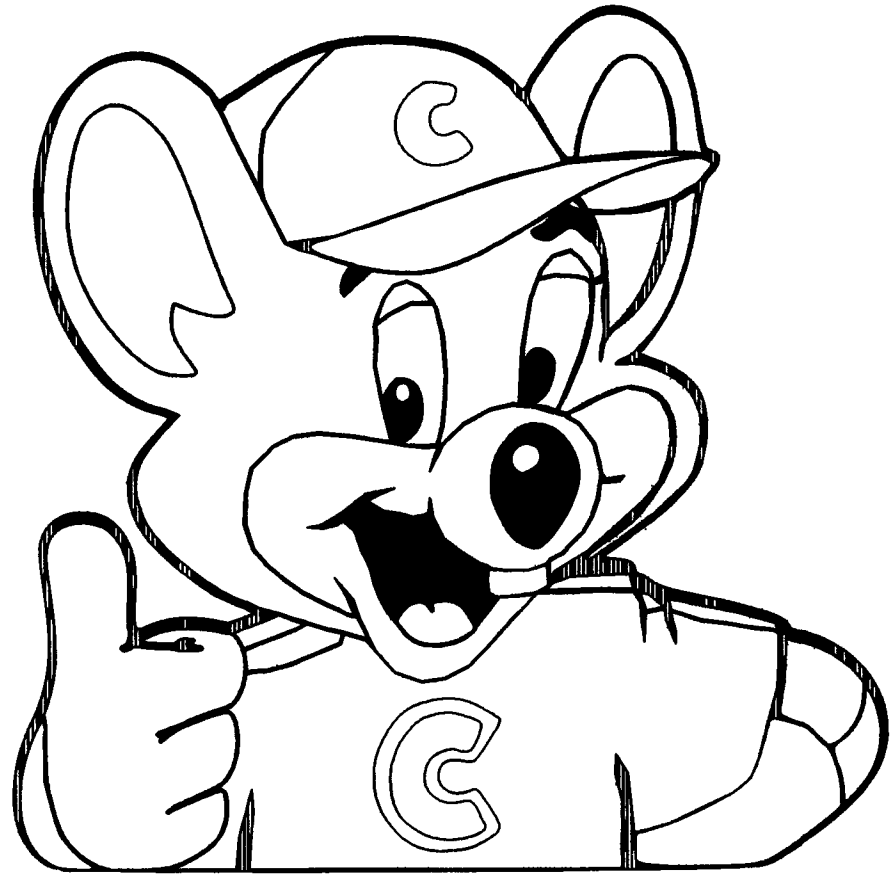
Re: Building Renovation Plan for Existing Building - Permit BLD04-2009

Chuck-E-Cheese

3500 SW Collage Rd. Unit # 200 Ocala, FL.

Comments:

1. Please call the Ocala Fire Dispatch Center @ (352) 369-7002 when any fire protection system(s) are taken out of service.
2. Plans and specifications for any modifications to the existing fire alarm system shall be submitted in accordance with NFPA 72 for review.
3. Please submit plans in accordance with NFPA 13 for review by the Ocala Fire Rescue Department showing modifications to the existing fire sprinkler system.
4. HVAC units with a combined capacity of 2000 cfm or more are required to have smoke detectors in both the supply and return air sides and tied into the fire alarm system. Remote testers are required for the air handling units that are concealed or inaccessible.
5. Portable fire extinguishers shall be maintained in strict accordance with all provisions of section 7-6 of the 2001 Edition of the Florida Fire Prevention Code.
6. If any cooking produces a grease-laden vapor, hood and extinguishing plans shall be submitted for review.
7. Please call the Ocala Fire Marshal's office at 352-629-8513 for all required fire department inspections.



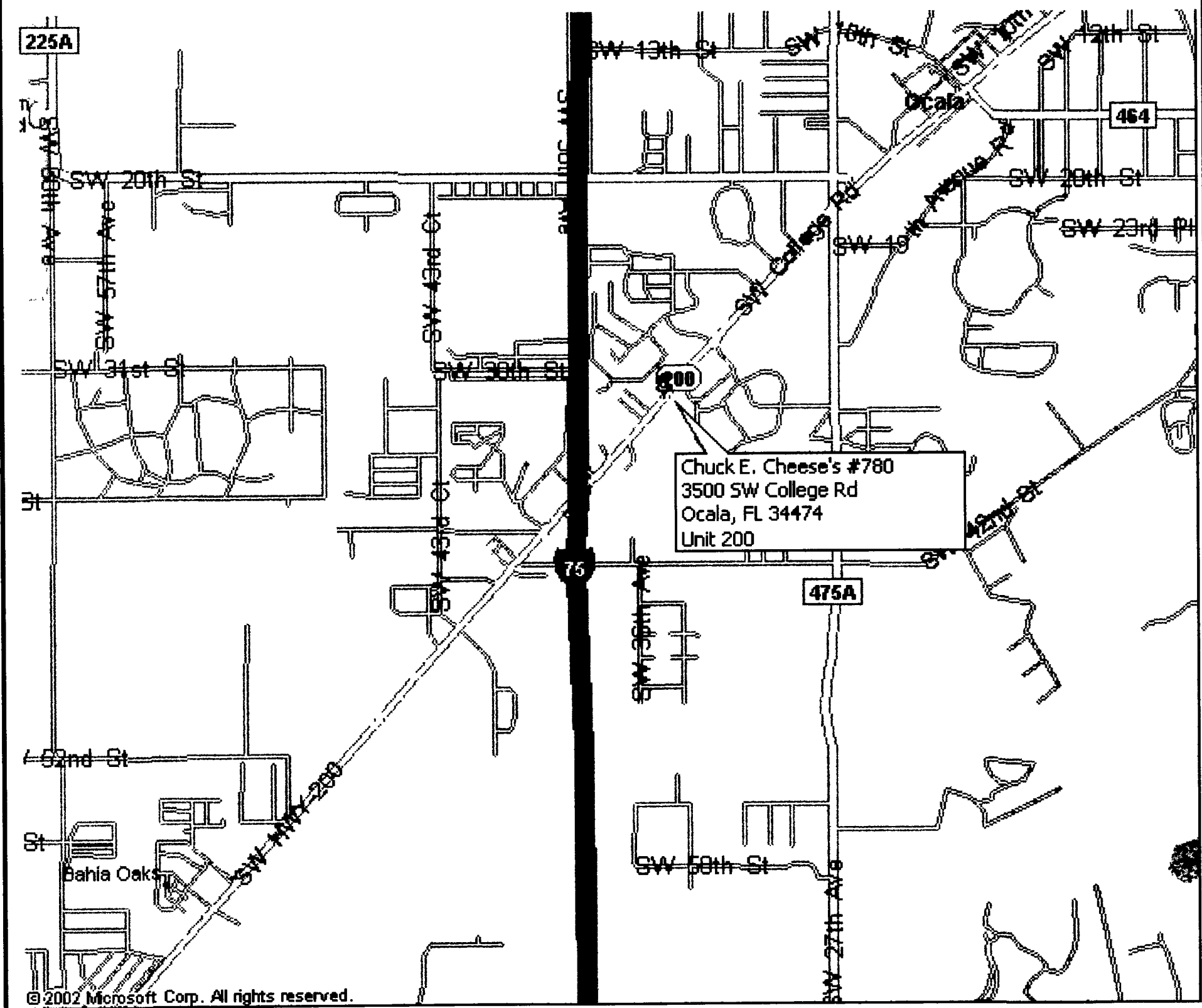
CHUCK E. CHEESE'S

STORE # 780
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL

5,000
x .8333

x 2.6

AREA LOCATION MAP



LIST OF CONTACTS

OWNER

CEC ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
P.O. BOX 152007
IRVING, TEXAS 75062
TEL. 972-258-8507

ARCHITECT

C.T. CHANG, A.I.A.
1010 EULESS BLVD. (HWY 10) SUITE 110
EULESS, TEXAS 76040
PH: 817-354-6010
FAX: 817-571-1919
EMAIL: CHANG-DW@SWBELL.NET

CONTACTS:
DANA WENZEL

PROJECT COORDINATOR

PARKWAY CONSTRUCTION CO.
1000 CIVIC CIRCLE
LEWISVILLE, TEXAS 75067
PH: 972-221-1979

CONTACTS:
DAVID DOTTER

M. E. P. ENGINEER

JOSEPH SHOULTES, MEP
840 TIMBERTOP COURT
COLORADO SPRINGS, CO 80921
PH: 719-481-0192

INDEX TO DRAWINGS

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G1.0	GENERAL NOTES
D1.0	DEMOLITION PLAN
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A1.1	ENLARGED RESTROOM PLAN
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E3.1	ELECTRICAL SCHEDULES & RISER

CODE INFORMATION

ZONING	SC
BUILDING	FLORIDA BUILDING CODE
OCCUPANCY CLASS:	A2 SMALL ASSEMBLY
CONSTRUCTION TYPE:	IV UNPROTECTED, SPRINKLERED
BUILDING GROSS AREA:	11,700 SQ. FT.
EGRESS PROVIDED:	110"
EXITS PROVIDED:	2
OCCUPANCY LOAD:	399 PEOPLE
SEATING:	200 PEOPLE
MECHANICAL	2000 IMC
ELECTRICAL	NEC
PLUMBING	2000 IPC
FIRE	NFPA 101 & FLORIDA FIRE CODE
HEALTH	DIVISIONS OF HOTELS & RESTAURANTS JACKSONVILLE DISTRICT
ACCESSIBILITY	FLORIDA BUILDING CODE

ALL SANITARY SEWER SERVICES PERTAINING TO THIS SITE SHALL BE FIELD EXCAVATED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION IN ORDER TO DETERMINE ACTUAL INVERTS AND LOCATIONS.

These plans have been checked to meet all codes which the City of Ocala enforces. If there are any errors, omissions, or oversights made by the person(s) checking these plans, this does not omit the enforcement of these codes, and no CO will be issued until the said code violation(s) are corrected.

REVIEWED

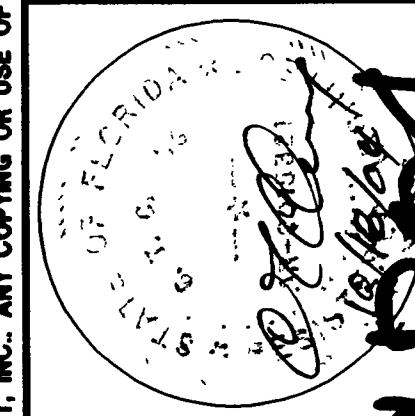
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BY
CITY OF OCALA



PERMIT
ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

780
OCALA, FL

CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
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C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



Date
10/18/2004

Revisions

Project Number
SB-780

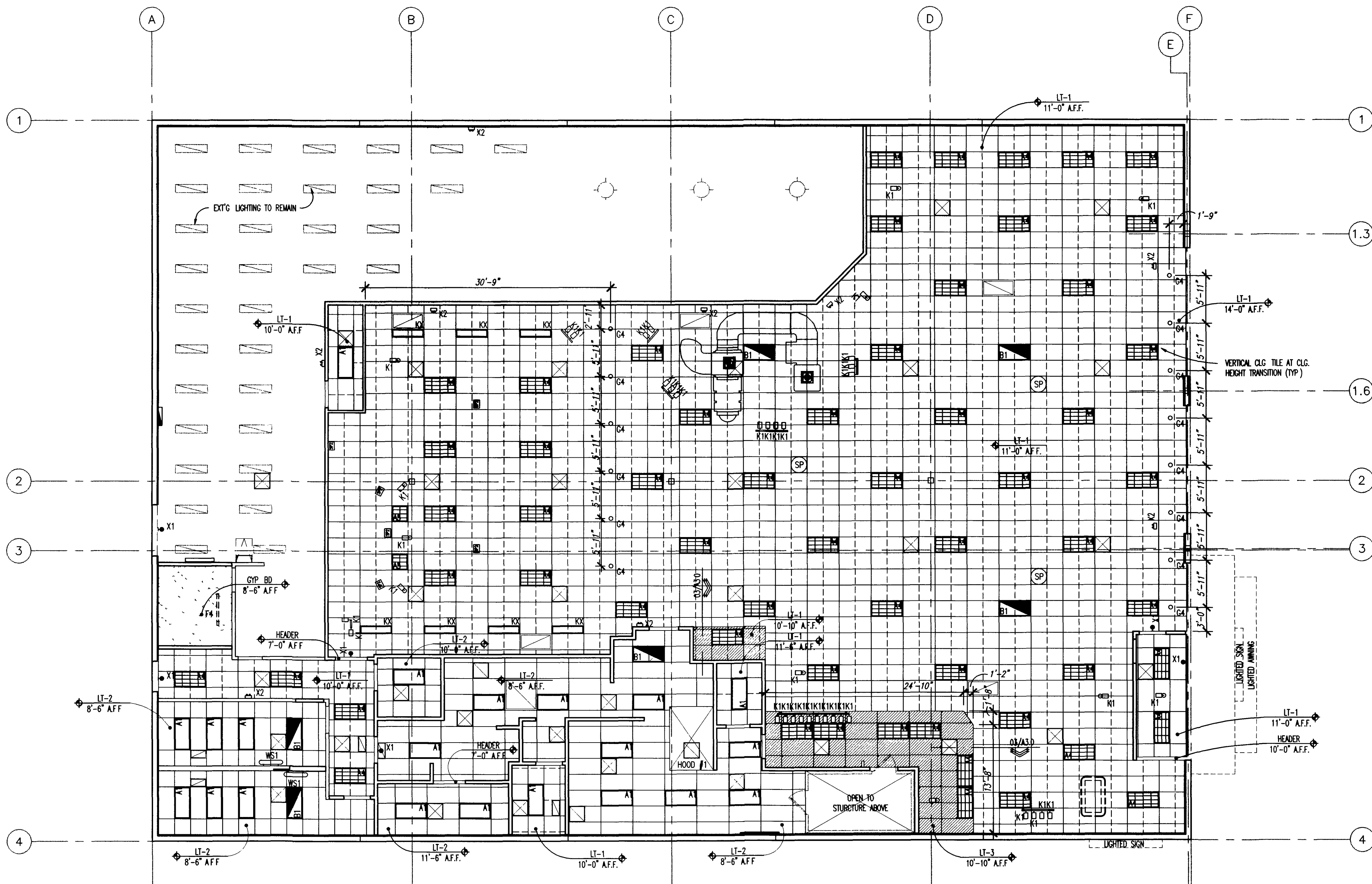
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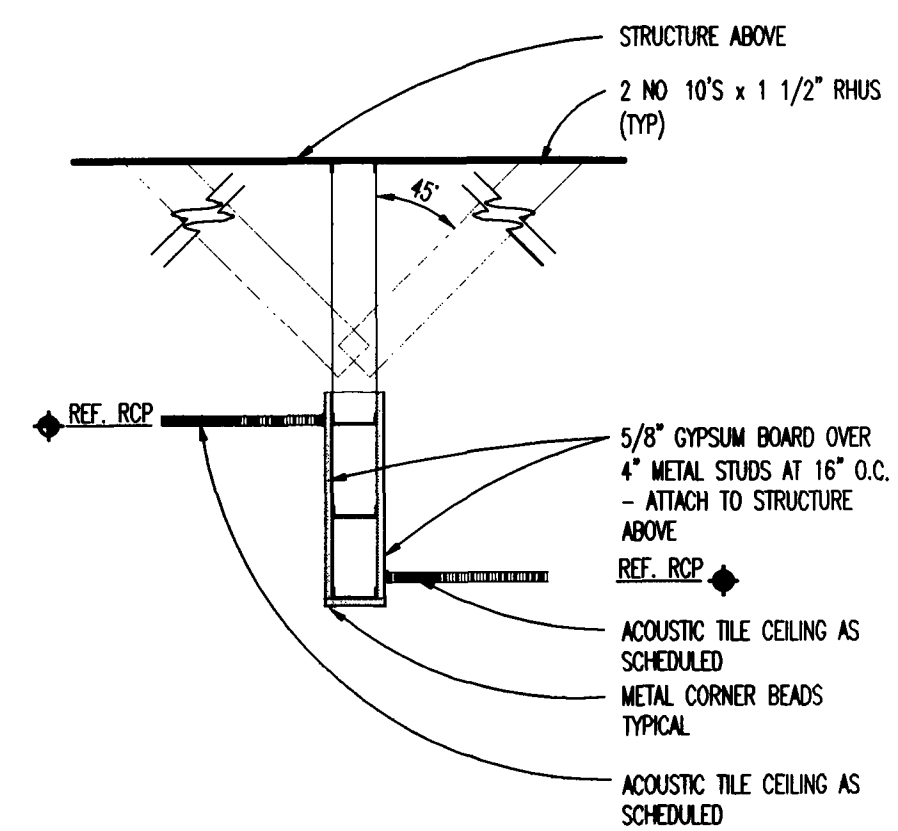
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16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	PEN NO
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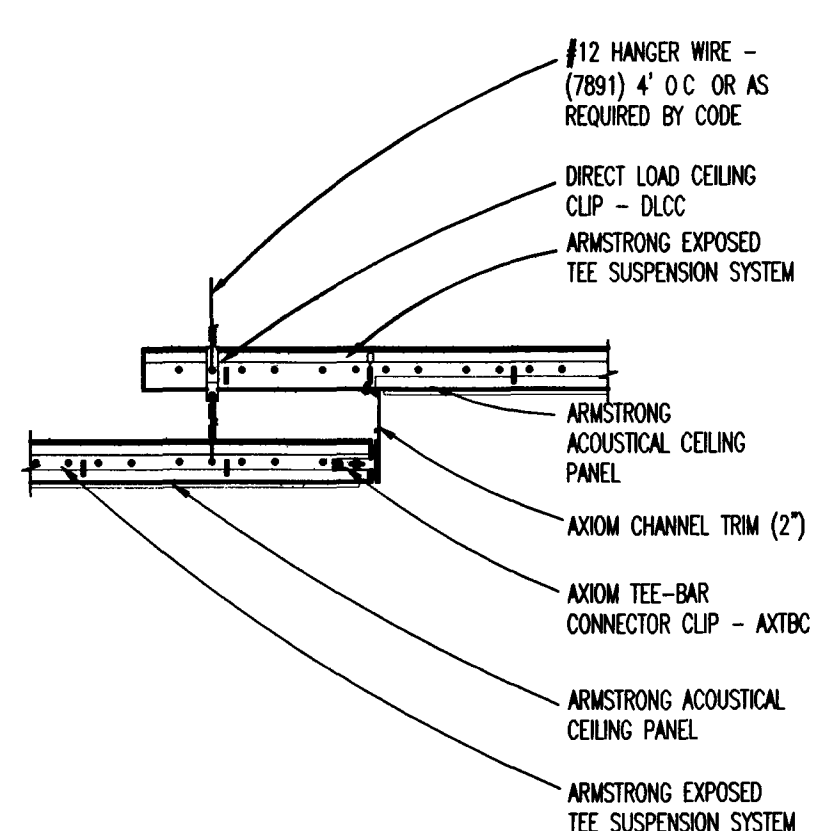


01 REFLECTED CEILING PLAN
SCALE 1/8"=1'-0"

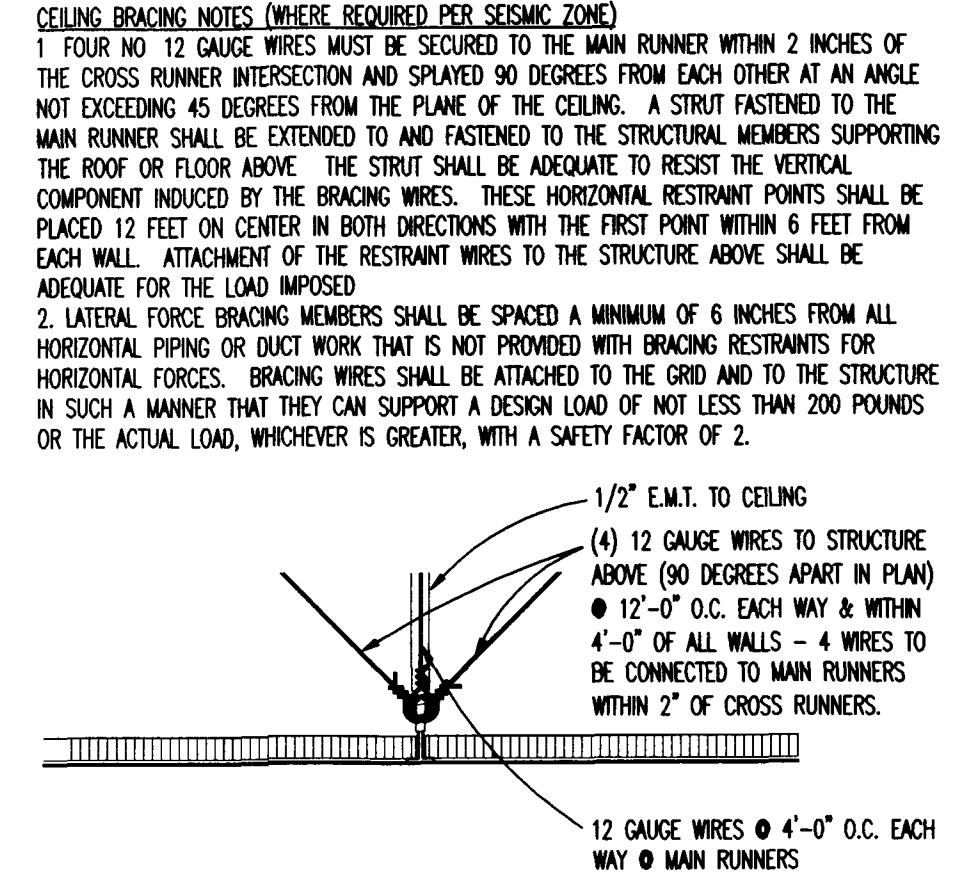
STORAGE/ANNING NOTE:
G.C. RESPONSIBLE FOR COORDINATION
AND VERIFICATION OF POWER AND
SIGNAGE/ANNING PRIOR TO
INSTALLATION.



02 HEADER DETAIL
SCALE: 3/4"=1'-0"



03 CEILING TRANSITION
SCALE: 1 1/2"=1'-0"



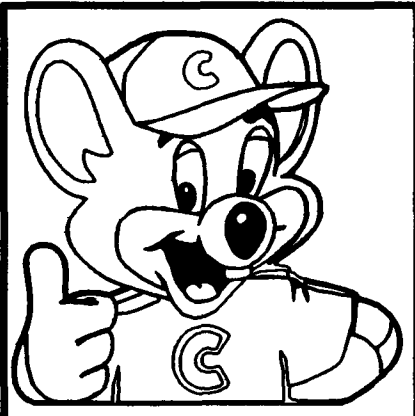
04 CEILING LATERAL TIE
SCALE: 3"=1'-0"

NOTES

1. NO FIXTURES, GRILLES, SPEAKERS, SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING T'S OR SHADOW LINE, CENTER IN PANEL.
2. PAINT ALL GRILLES AND RECESSED SPEAKERS TO MATCH CEILING GRID.
3. ALL SPEAKER WIRE SHALL HOME RUN TO CONTROL ROOM RACK. REF. E1.1 FOR CONNECTIONS.

RCP LEGEND

- 2'x4 LAY-IN ACOUSTIC TILE (LT-1)
- 2'x4 VINYL FACED LAY-IN TILE (LT-2)
- 2'x4 VINYL FACED LAY-IN TILE (LT-3)
- GYPSUM BOARD CEILING (GYP BD)
- 2'x4 LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS
- 2'x4 LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILL
- 2'x4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & ACRYLIC LENS
- 2'x4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & EGGRATE GRILL
- 2'x2 LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILL
- SPEAKER (CEILING)
- SPEAKER (BRACKET MOUNTED)
- TELEVISION (BRACKET MOUNTED)
- EXTERIOR WALL PACK
- STRAIGHT-SIDED UTILITY CHANNEL UTILITY FLUORESCENT STRIP LIGHT
- PENDANT FIXTURE (R-RED, Y-YELLOW, B-BLUE)
- PENDANT FIXTURE
- SPOT LIGHT W/ MONOPOINT MOUNT
- LIGHT TRACK (LENGTH AND HEADS AS SHOWN ON DRAWING)
- EXIT LIGHT
- EMERGENCY LIGHT (CEILING MOUNTED)
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- CEILING OUTLET
- EXTERIOR WALL SCONCE
- WALL SCONCE
- RECESSED DOWNLIGHT
- WALL WASHER
- 1 X 4 FLUORESCENT WALL WASHER
- KID CHECK BLACKLIGHT



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780
OCALA, FL
REFLECTED CEILING PLAN



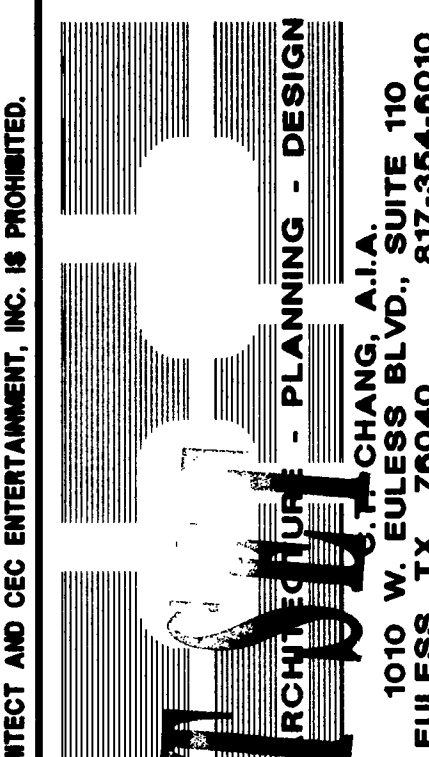
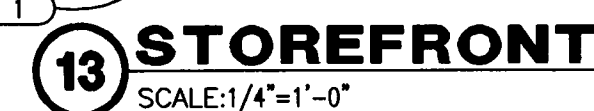
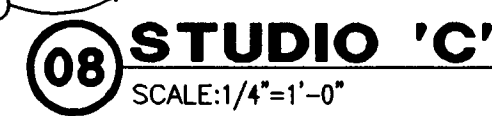
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CHUCK E. CHEESE'S PIZZA. # 780

3350 SW COLLEGE ROAD UNIT 200
OCALA, FL

C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

INTERIOR ELEVATIONS

780
OCALA, FL



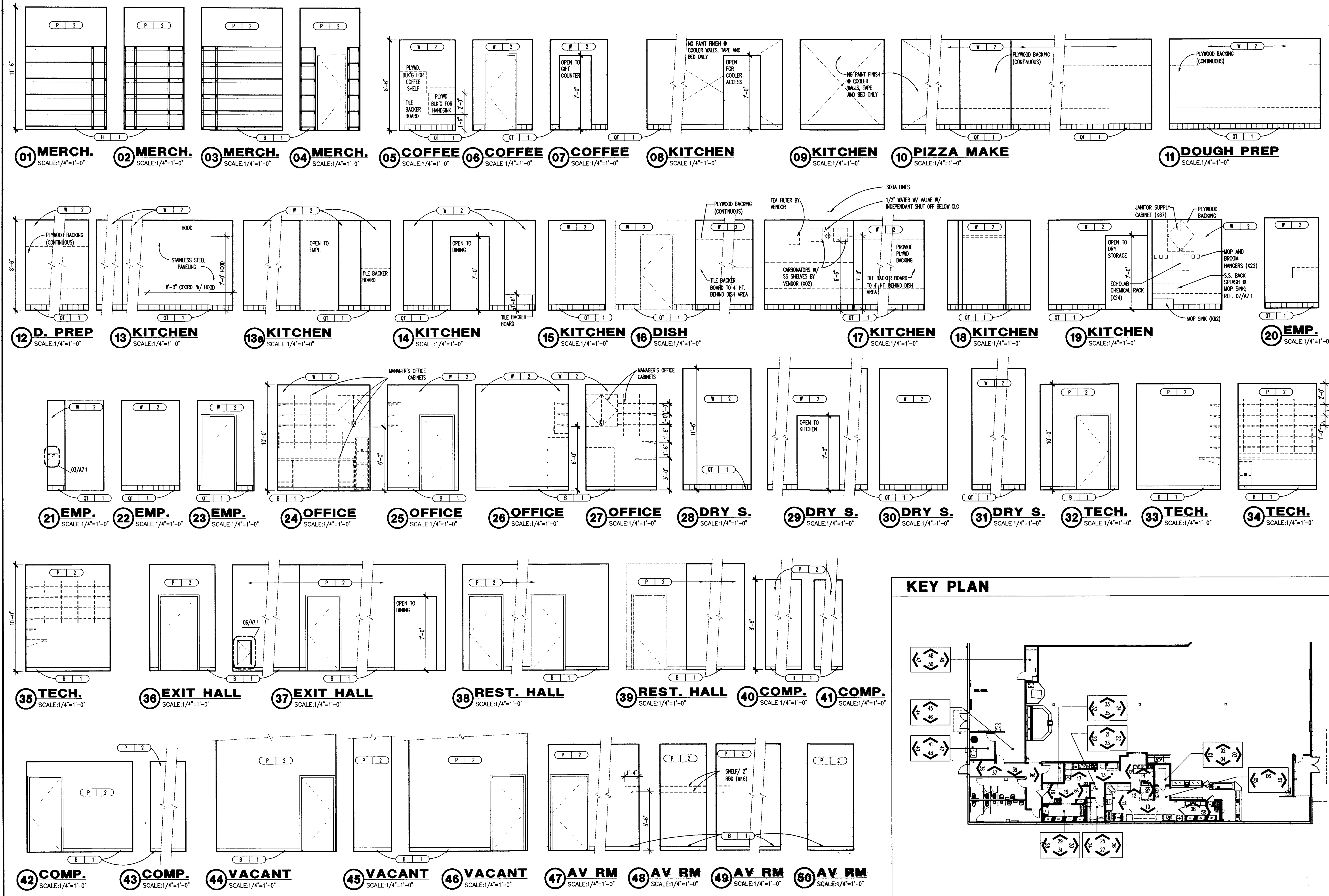
Revisions

Project Number
SB-780

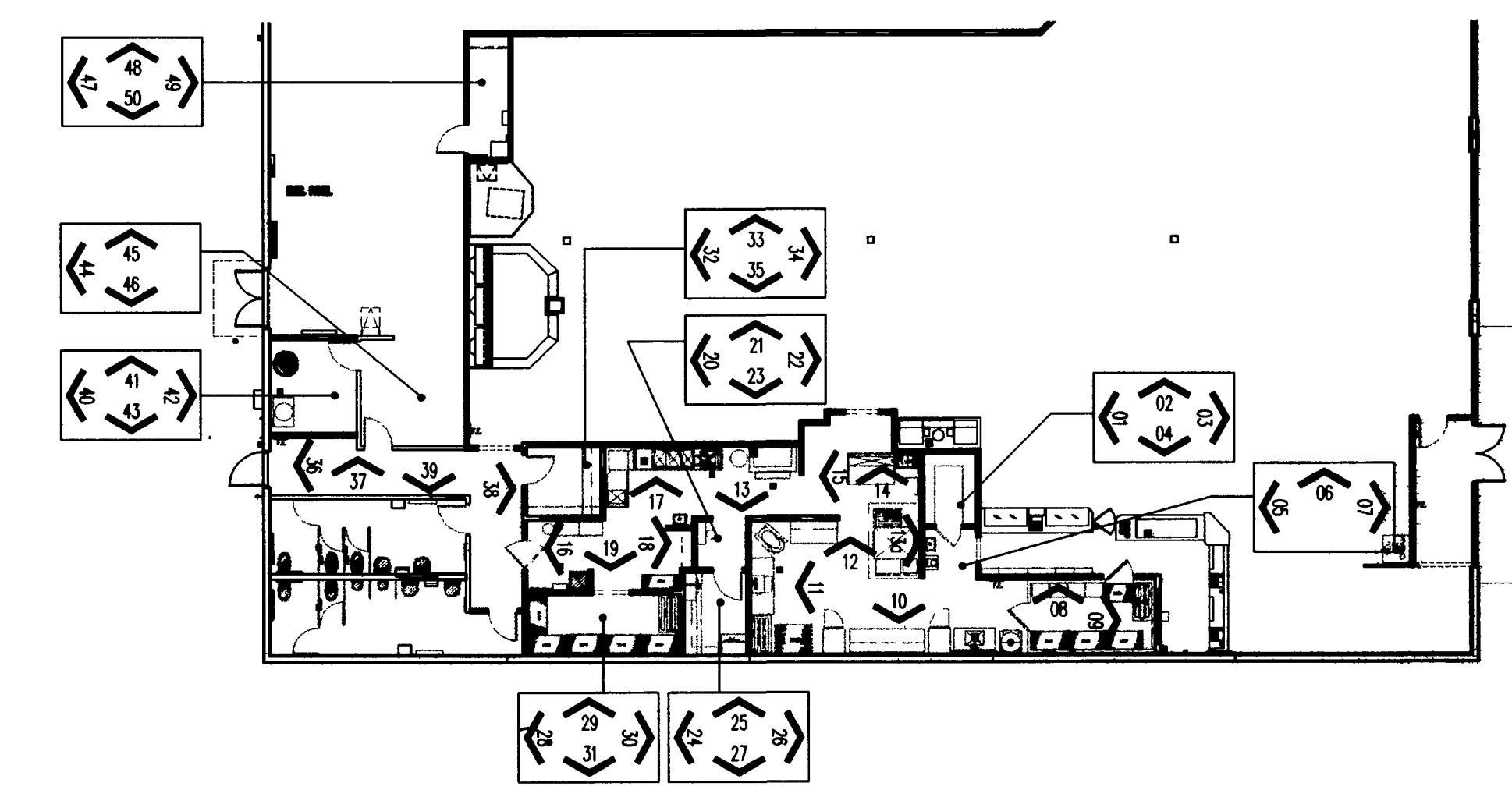
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AS780 / PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"



KEY PLAN





PERMIT STAMP

CHUCK E. CHEESE'S PIZZA

780

OCALA, FL

3500 SW COLLEGE ROAD UNIT 200
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C. E. C. ENTERTAINMENT, INC.
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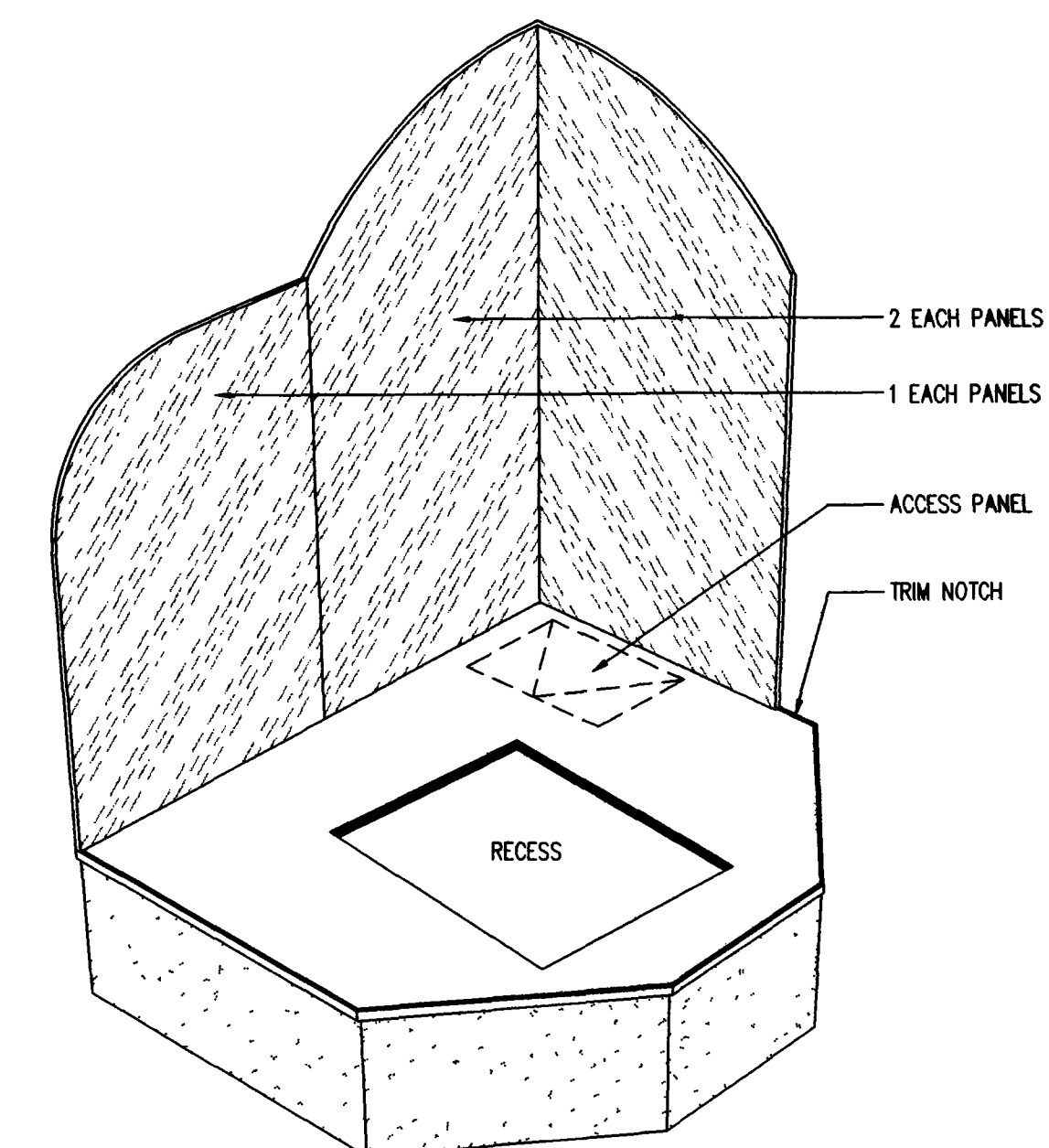
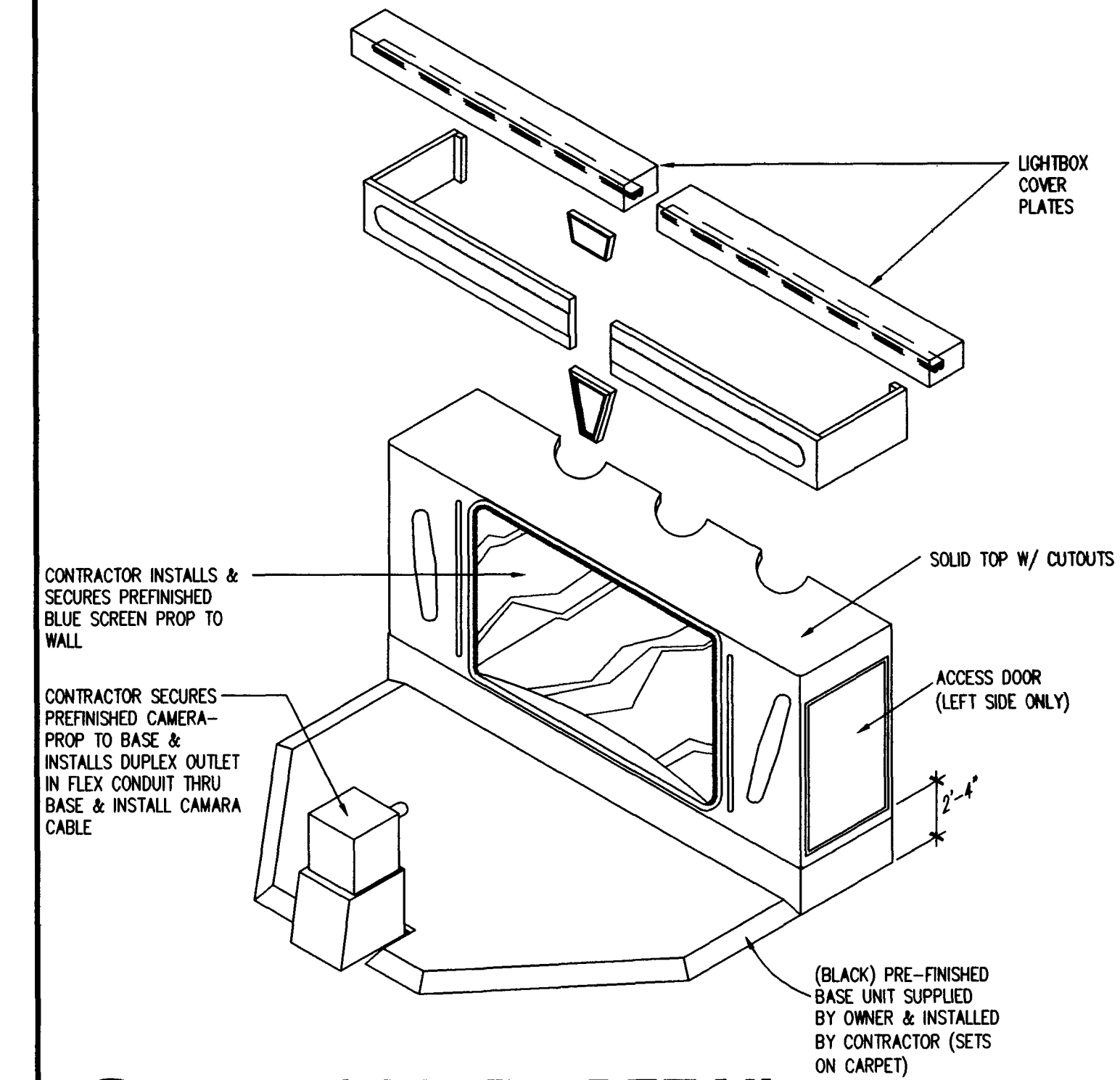
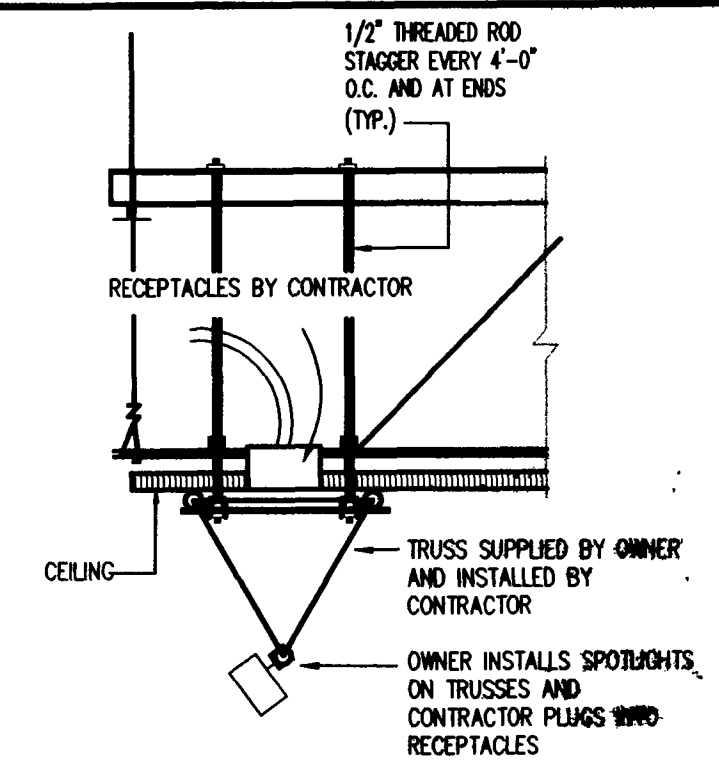
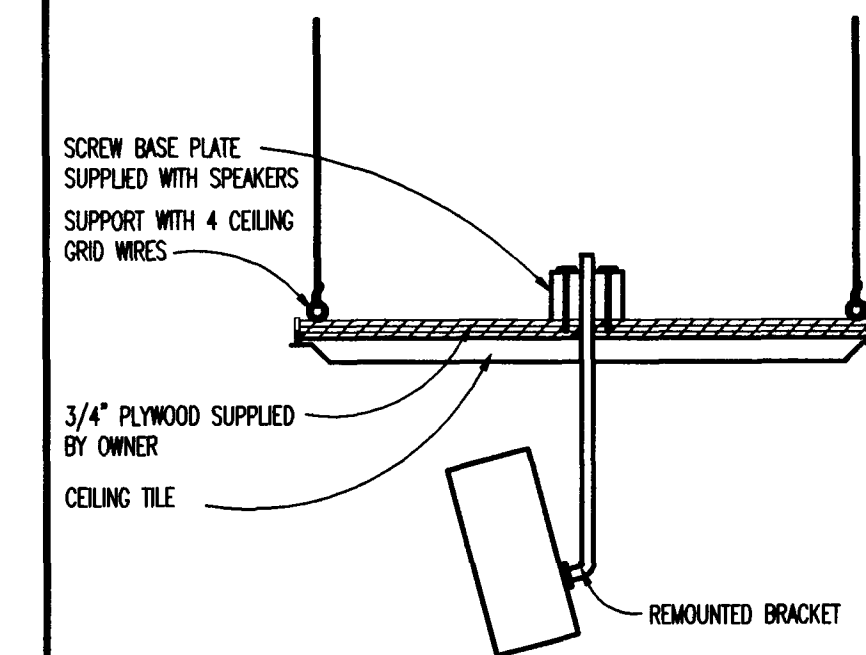
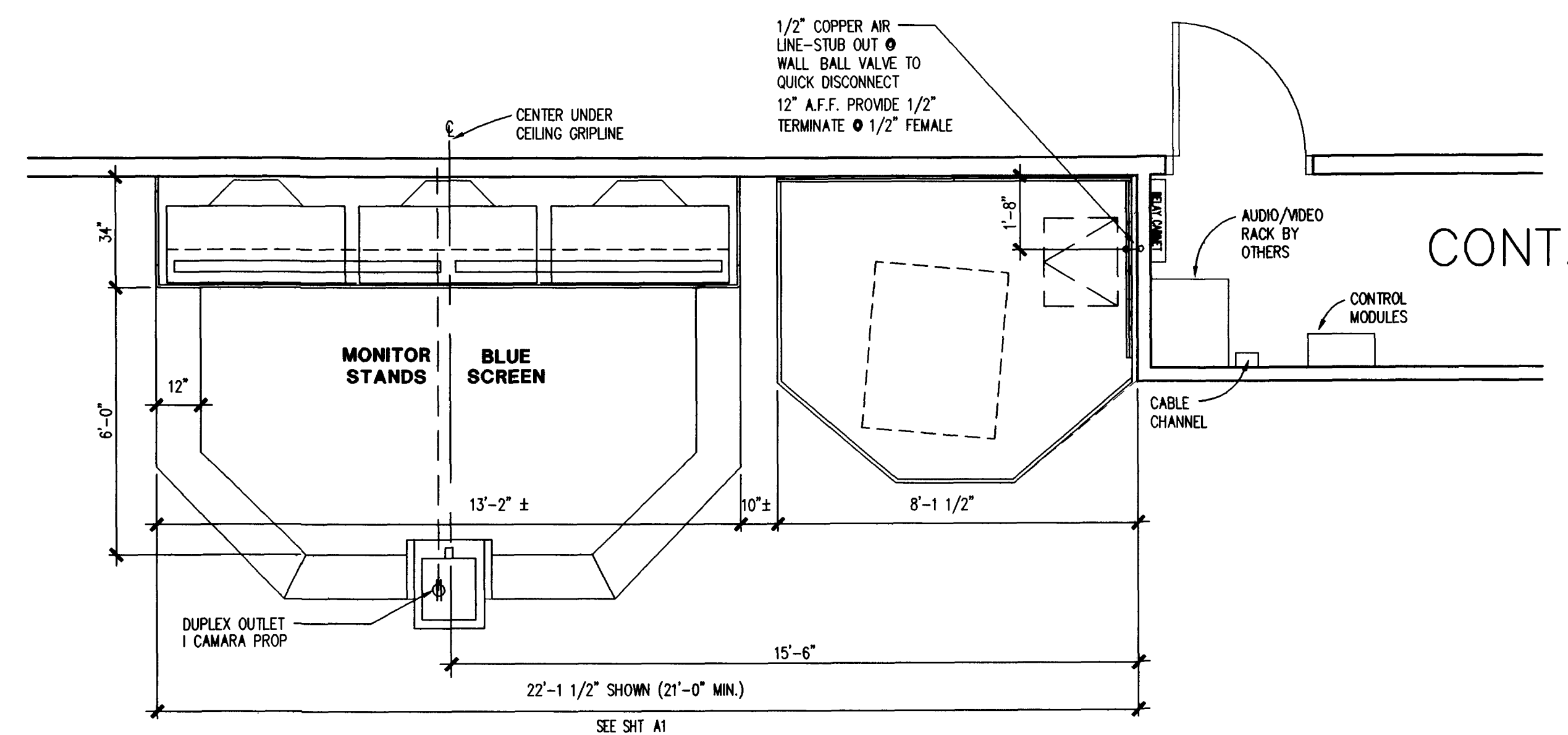
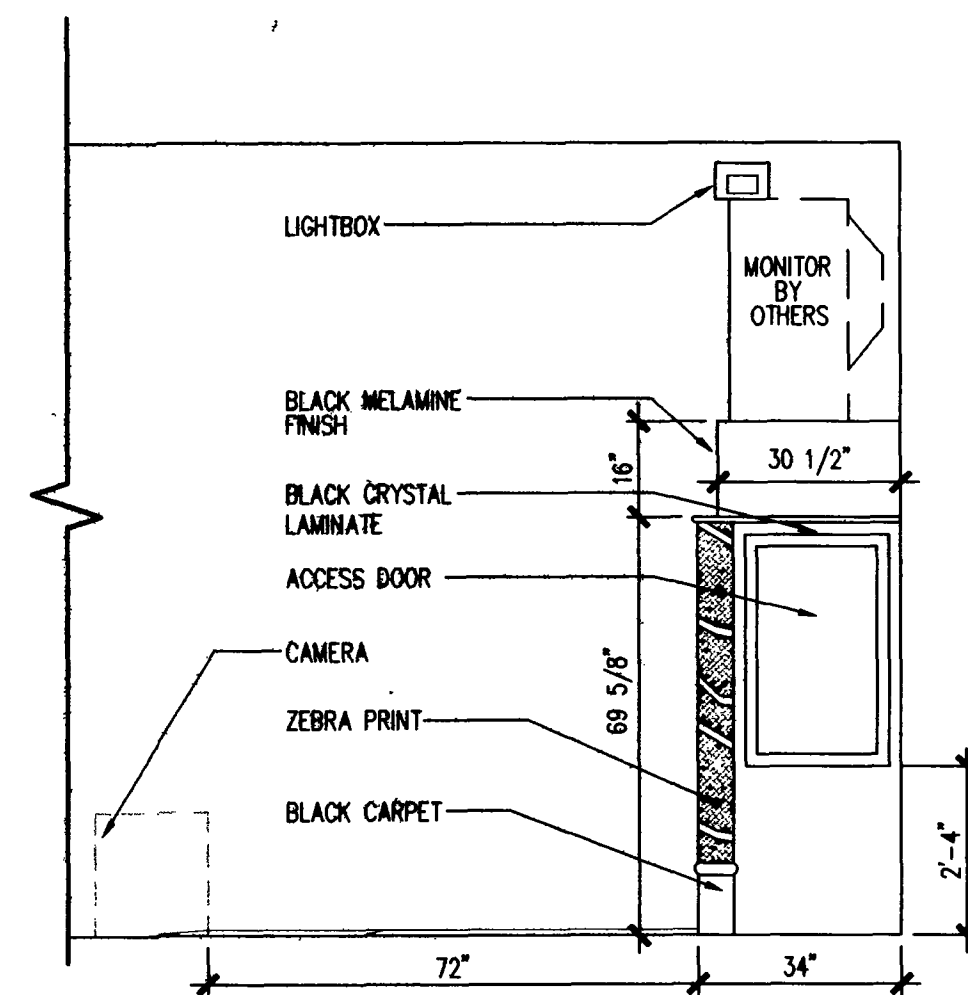
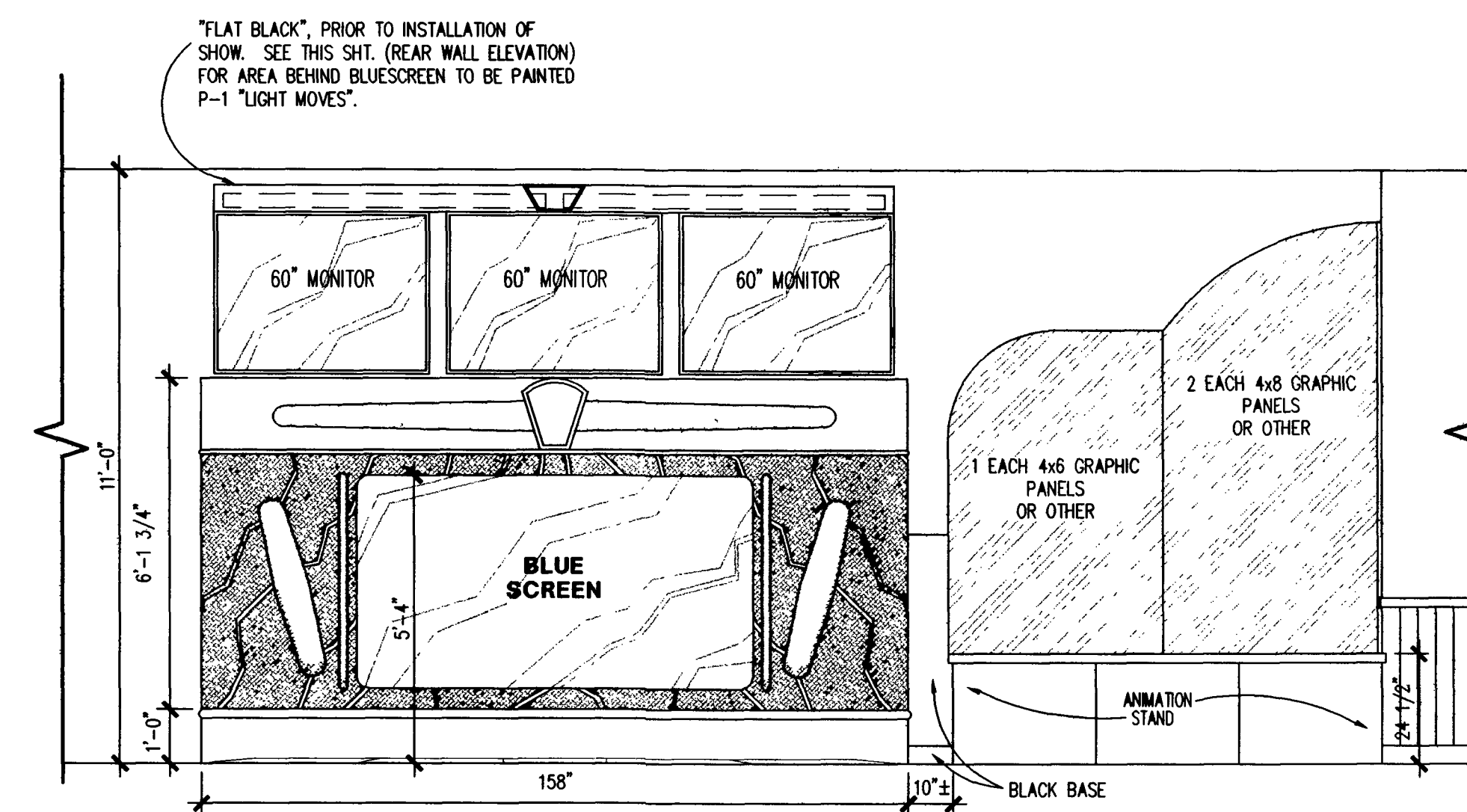
INTERIOR ELEVATIONS

DATE: 10/18/2004

Revisions

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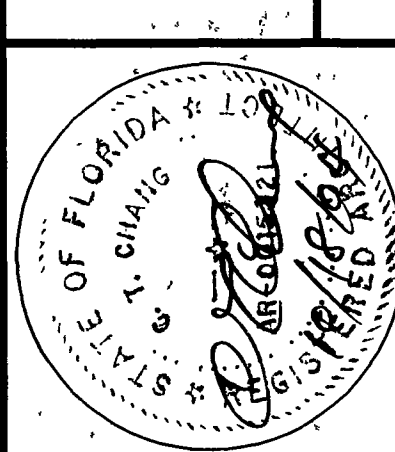
ARCHITECTS - PLANNING - DESIGN

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CHUCK E. CHEESE'S PIZZA.
780
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
STUDIO 'C'
OCALA,



Date
10/18/2004

Revisions

Project Number
SB-780

Sheet Number

ST1
of 1

SPECIFICATIONS

DIVISION 1 – GENERAL CONDITIONS

- 01010 Summary of Work
- 1.01 WORK COVERED BY CONTRACT DOCUMENTS
- A. WORK OF THIS CONTRACT COMPRISES, BUT IS NOT LIMITED TO, GENERAL CONSTRUCTION FOR A REMODEL PROJECT, INCLUDING FINISH OUT, HVAC, ELECTRICAL, AND PLUMBING FOR A NEW CEC ENTERTAINMENT, INC. (CEC); CHUCK E. CHEESE UNIT.
- B. IT IS INTENT OF THESE DOCUMENTS, THAT THEY REPRESENT A COMPLETE TURN KEY PROJECT FOR THE SCOPE OF WORK DESCRIBED.
1. EXCEPTIONS AND INCONSISTENCIES IN THE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMISSION OF BIDS OR START OF WORK.
- A. QUALIFICATIONS OF BIDS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- B. EXCEPTIONS AND INCONSISTENCIES IN THE DOCUMENTS SHALL NOT BE A BASIS FOR A CHANGE ORDER
2. IN CASE OF DIFFERENCE BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, ADA, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND THE CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. ANY WORK INVOLVED WITH THESE DIFFERENCES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- 1.02 WORK BY OTHERS
- A. LANDLORD / TENANT (CEC) RESPONSIBILITY
1. RESPONSIBILITY FOR THE WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS SHALL BE AS SET FORTH IN THE LEASE AND AS AGREED TO BY THE LANDLORD AND THE TENANT.
- 1.03 CONTRACT METHODS
- CONSTRUCT THE WORK UNDER A SINGLE LUMP SUM CONTRACT.
- 1.04 CONTRACTOR USE OF THE SITE
- A. LIMIT USE OF PREMISES FOR WORK AND FOR CONSTRUCTION OPERATIONS
- B. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND STAGING OF MATERIALS DURING THE CONSTRUCTION OF THE PROJECT WITH THE OWNER'S REPRESENTATIVES IN ORDER TO ACHIEVE THE LEAST POSSIBLE INTERFERENCE WITH LOCAL REGULAR OWNER OPERATIONS, BUSINESS, PARKING, DUMPSITE, ETC
- 1.05 GENERAL CONTRACTOR RESPONSIBILITY:
- A. COORDINATE WORK OF THE VARIOUS SECTIONS OF SPECIFICATIONS TO ASSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER.
- B. COORDINATE ALL WORK OF VARIOUS SECTIONS OF THE SPECIFICATIONS HAVING INTERDEPENDENT RESPONSIBILITIES.
- C. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF PLUMBING AND ELECTRICAL WORK WHICH ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS.
1. FOLLOW ROUTING SHOWN FOR PIPES, DUCTS AND CONDUITS, AS CLOSELY AS PRACTICABLE; MAKE RUNS PARALLEL WITH LINES OF BUILDING WALLS.
2. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, MAINTENANCE AND REPAIRS
- D. EXECUTE CUTTING AND PATCHING TO INTEGRATE ELEMENTS OF WORK, UNCOVER ALL-TIMED OR NON-CONFORMING WORK, PROVIDE OPENINGS FOR PENETRATIONS OF EXISTING SURFACES, AND PROVIDE SAMPLES FOR TESTING.
1. SEAL PENETRATIONS THROUGH FLOORS, WALLS AND CEILINGS. PROVIDE FIRE RATINGS AS REQUIRED BY CODE.
2. RETURN ALL CUT, UNCOVERED OR EXCAVATED AREAS TO THEIR ORIGINAL CONDITION, UNLESS THESE AREAS ARE SCHEDULED TO RECEIVE NEW SURFACES.
- 1.06 MISCELLANEOUS FEES
- LANDLORD SHALL PAY ALL IMPACT, UTILITY RESERVE, TAP, CONNECTION & USE FEES RELATED TO TENANT'S PROJECTED UTILIZATION OF INFRASTRUCTURE INCLUDING, BUT NOT LIMITED TO, ROAD IMPROVEMENT; WATER AND SEWER; FIRE PROTECTION MANS, POLICE; FIRE AND EMERGENCY; RECREATION AND MAINTENANCE; MEDIAN STRIP AND LANDSCAPING; REZONING FEES; PARKING STUDIES AND SPECIAL PERMIT FEES, PROVIDED, HOWEVER, THAT TENANT SHALL PAY FOR FEES RELATED TO THE PHYSICAL CONNECTION OF UTILITIES
- 1.07 PERMITS
- LANDLORD AND/OR CONTRACTORS AND/OR SUBCONTRACTORS SHALL OBTAIN ALL NECESSARY PERMITS FOR THE WORK
- 1.08 TEMPORARY UTILITIES
- LANDLORD AND/OR CONTRACTORS AND/OR SUBCONTRACTORS ARE RESPONSIBLE FOR TEMPORARY UTILITIES FOR THEIR WORK INCLUDING PAYMENT OF UTILITY BILLS
- 1.09 HAZARDOUS MATERIALS
- LANDLORD WARRANTS THE SITE AND/OR BUILDING IS FREE OF ASBESTOS CONTAINING MATERIALS (ACM) AND ANY OTHER HAZARDOUS MATERIALS, IF NOT, WILL REMOVE AND DISPOSE OF ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS IN ACCORDANCE WITH ALL APPLICABLE LAWS
- 01210 Preconstruction Meeting
- A PRECONSTRUCTION MEETING WILL BE HELD AT THE OFFICES OF THE OWNER FOR THE PURPOSES OF DISTRIBUTING FINAL CONSTRUCTION PLANS, REVIEWING BUDGETS, SCHEDULES AND RELATED PROJECT INFORMATION, INCLUDING SPECIFIC PROJECT REQUIREMENTS FOR SUBMITTALS AS SET FORTH IN SECTION 01340.
- SPECIFIC PROJECT REQUIREMENTS FOR TESTING AS SET FORTH IN SECTION 01410.
- 01310 Construction Schedules
- GENERAL CONTRACTOR SHALL FURNISH A CONSTRUCTION SCHEDULE TO PROVIDE ADEQUATE PLANNING OF THE EXECUTION OF THE WORK
- 01340 Submittals
- MAKE ALL SUBMITTALS REQUIRED AND AS NECESSARY TO ESTABLISH COMPLIANCE WITH THE SPECIFIED REQUIREMENTS OF THE WORK AND IN A TIMELY MANNER TO COMPLETE SCHEDULES. PROVIDE ADEQUATE COPIES TO ARCHITECT FOR GENERAL CONTRACTORS USE. ARCHITECT WILL RETAIN 1 COPY PLUS 1 COPY FOR EACH CONSULTANT INVOLVED. ANY SUBMITTAL NOT BEARING THE REVIEW STAMP OF THE GENERAL CONTRACTOR WILL NOT BE REVIEWED.
- 01410 Testing/Laboratory Services
- PROVIDE TESTING AND INSPECTING COMPLETE AS REQUIRED FOR VARIOUS SECTIONS OF THE WORK AND AS REQUIRED BY THE OWNER, THE ARCHITECT AND APPLICABLE GOVERNMENTAL AGENCIES
- 01500 Temporary Facilities and Controls
- GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SERVICES AND CONTROLS AS REQUIRED TO ACCOMPLISH THE WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- 01630 Substitutions and Product Options
- NO SUBSTITUTION OF PRODUCTS, MATERIALS OR EQUIPMENT SPECIFIED HEREIN WILL BE ALLOWED UNLESS SUBMITTED WITH SUBSTANTIATING DATA FOR OWNER'S WRITTEN APPROVAL PRIOR TO INSTALLATION
- 01700 Project Closeout
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY BONDS, GUARANTEES, RECEIPTS, AFFIDAVITS AND CERTIFICATE OF OCCUPANCY TO THE OWNER WITH RECORD DOCUMENTS, OPERATION, MAINTENANCE AND WARRANTY DATA, TAGGED KEYS AND HVAC TABI REPORT PRIOR TO FINAL PAYMENT
- 01710 Cleaning
- SCHEDULE FINAL CLEANING PRIOR TO TURNING PROJECT OVER TO THE OWNER. PROFESSIONALLY CLEAN THE ENTIRE BUILDING. CHANGE OUT HVAC FILTERS. CLEAN GLASS INSIDE AND OUT. POLISH ALL SURFACES
- 01720 Project Record Documents
- GENERAL CONTRACTOR SHALL MAINTAIN AND FURNISH TO OWNER AT COMPLETION, A COMPLETE SET OF RECORD DOCUMENTS SHOWING ALL CHANGES MADE DURING CONSTRUCTION, INCLUDING THE ORIGINAL PERMIT SET
- 01730 Operation, Maintenance & Warranty Data
- GENERAL CONTRACTOR SHALL FURNISH TO OWNER AT COMPLETION, A COMPLETE SET OF OPERATING, MAINTENANCE AND WARRANTY MANUALS FOR ALL COMPONENTS OF THE WORK, INCLUDING BUT NOT LIMITED TO EQUIPMENT, FIXTURES, PRODUCTS AND FINISHES.
- 01740 Accessibility Inspection & Certification
- GENERAL CONTRACTOR SHALL SECURE ANY ON-SITE INSPECTIONS AS REQUIRED BY THE STATE ON BEHALF OF THE OWNER AND CORRECT ALL REQUIRED DEFICIENCIES IN ORDER TO SECURE STATE COMPLIANCE FOR THE PROJECT PRIOR TO FINAL PAYMENT.

DIVISION 2 – SITE WORK

- 02070 Selective Demolition
- A. REMOVE ITEMS AS DESIGNATED OR SHOWN TO BE REMOVED ON THE DRAWINGS. PROVIDE AND PLACE BRACING AND/OR SHORING AS REQUIRED AND BE RESPONSIBLE FOR THE SAFETY AND SUPPORT OF THE EXISTING STRUCTURES.
- B. SECURE ANY NECESSARY PERMITS OR CLEARANCES AS REQUIRED TO FACILITATE THE DEMOLITION AND/OR THE TRANSPORTATION OF THE DEBRIS. DISPOSE OF ALL DEBRIS IN ACCORDANCE WITH LAWS IN EFFECT AT THE SITE.
- 02100 Site Preparation
- A. PROVIDE ALL SITE PREPARATION, EARTHWORK AND FINISH GRADING AS REQUIRED FOR COMPLETE PROJECT INCLUDING ALL CONTROLS AND PROTECTION OF ADJACENT PROPERTIES.
- B. PROVIDE ADEQUATE PARKING PER CODE, PARKING LOT LIGHTING, ACCESSIBLE PARKING LOCATIONS PER APPLICABLE CODES, ORDINANCES AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- 02200 Earthwork and Finish Grading
- A. PERFORM ALL WORK REQUIRED TO COMPLETE EARTHWORK TO GRADES SHOWN ON DRAWINGS. ALL SELECT FILL SHALL HAVE A LIQUID LIMIT OF LESS THAN 30, A PLASTICITY INDEX BETWEEN 4 AND 12 AND BE FREE OF TRASH AND ROCKS.
- B. PROVIDE TOPSOIL CONSISTING OF SANDY LOAM, FREE FROM RUBBLE, STONES, CLAY LUMPS, EXTRANEUOUS MATERIAL AND ROOTS. FINE GRADE AREAS TO ACHIEVE POSITIVE DRAINAGE AND CONTOURS AS SHOWN ON DRAWINGS.

- 02521 Reinforced Concrete Paving
- A. PERFORM ALL WORK REQUIRED TO COMPLETE PAVING, SIDEWALKS, CURBS, RAMPS AND/OR DRIVES AS REQUIRED. ALL SITE CONCRETE WORK SHALL BE PER LOCAL CODES OR A MINIMUM 4" THICK WITH 6/8 X 10/10 WELDED WIRE MESH. PLACE CONTROL JOINTS AT 5'-0" ON CENTER AND EXPANSION JOINTS AT 30'-0" ON CENTER MINIMUM
- B. PROVIDE HANDICAPPED ACCESSIBILITY PURSUANT TO CITY, COUNTY AND STATE HANDICAP CODES AS WELL AS THE AMERICANS WITH DISABILITIES ACT (ADA)
- 02523 Dumpster Pad
- PROVIDE DUMPSITE PAD, AS REQUIRED, CONVENIENT TO SERVICE DOOR IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS. PAD SHALL BE OF SUFFICIENT SIZE AND COMPLETE WITH GUARD POSTS & COLD WATER HOSE BIB.
- 02575 Pavement Repair
- REPAIR AND REPLACE ALL DAMAGED ASPHALT PAVING. COMPLETE PAVING TO PROVIDE A COMPLETE AND PROPER INSTALLATION.

- 02580 Pavement Markings
- PROVIDE COMPLETE PARKING STRIPING, HANDICAPPED MARKINGS AND FIRE LANES AS REQUIRED BY CITY, STATE & ADA.

DIVISION 3 – CONCRETE

- 03200 Concrete Reinforcement
- DEFORMED BILLET STEEL BARS SHALL CONFORM TO ASTM A-615, GRADE 60. TIES & STIRRUPS SHALL BE GRADE 40
- 03300 Cast-in-Place Concrete
- PROVIDE CONCRETE FLOOR SLAB IN ALL AREAS. SLAB TO BE A MINIMUM OF 5" THICK WITH PROPER STRUCTURAL REINFORCEMENT, DESIGNED WITH SUFFICIENT STRUCTURAL SUPPORT (GRADE BEAMS) AS DESIGNED BY REGISTERED STRUCTURAL ENGINEER IN ACCORDANCE WITH GEOTECHNICAL REPORT

DIVISION 4 – MASONRY

- 04220 Concrete Unit Masonry
- A. PROVIDE STANDARD 8" CMU REINFORCED WITH #5 AT 32" O.C. VERTICALLY OR AS REQUIRED BY LOCAL CODES
- B. PROVIDE GALVANIZED WIRE TRUSS REINFORCING AT 8" O.C VERTICALLY
- C. PROVIDE FULL FOAMED INSULATION IN ALL MASONRY CAVITIES OF EXTERIOR WALLS NOT FILLED WITH MORTAR

DIVISION 5 – METALS

- 05100 Structural Metal Framing
- PROVIDE AND ERECT STEEL BEAMS, TUBE COLUMNS, TRUSS GIRDERS AND BRACING AS SHOWN ON DRAWINGS.
- 05200 Metal Joists
- PROVIDE AND ERECT METAL JOISTS AS SHOWN AND SCHEDULED. IN AREAS SHOWN, JOIST SHALL BE HEAVY DUTY TO CARRY THE LOADS OF THE "SKYCRAM."
- 05300 Metal Decking
- PROVIDE AND ERECT METAL DECKING AS SHOWN AND SCHEDULED
- 05400 Cold-Formed Metal Framing
- PROVIDE AND INSTALL 6" 16 GAUGE METAL STUDS WITH 14 GAUGE TRACK AND MISCELLANEOUS COLD-FORMED FLOORING COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION OF WORK SHOWN
- 05500 Metal Fabrications
- PROVIDE AND INSTALL ALL FABRICATED METALS INCLUDING BUT NOT LIMITED TO "SKYCRAM," FRAMING, BOLLARDS, ROOF LADDER, LINTELS, ANGLES, PLATES, INSERTS & MISCELLANEOUS COMPONENTS REQUIRED FOR ALL SECTIONS OF THE WORK
- 05720 Ornamental Metal
- PROVIDE AND INSTALL ALL ORNAMENTAL METALS INCLUDING BUT NOT LIMITED TO "LAW INDUSTRIES" 888/213/8209 INCLUDING BUT NOT LIMITED TO PLATES, PIPES, RAILS, FITTINGS AND ACCESSORIES AS SCHEDULED:

DIVISION 6 – WOOD AND PLASTICS

- 06100 Rough Carpentry
- PROVIDE AND INSTALL ALL ROUGH CARPENTRY ITEMS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION AND AS REQUIRED BY CODE. PROVIDE FIRE RETARDANT TREATED WOOD WHEN REQUIRED BY CODE.
- WOOD FRAMING:
- GRADE MARKED DOUGLAS FIR-LARCH STRUCTURAL GRADE NO. 1 WOOD FRAMING AS SHOWN ON DRAWINGS.
- SILLS, PLATES AND LEDGERS:
- GRADE MARKED DOUGLAS FIR-LARCH STRUCTURAL GRADE NO. 2 WOOD FRAMING AS SHOWN ON DRAWINGS. ALL SILLS OR PLATES ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR EQUAL.
- CLU-LAM BEAMS AND POSTS:
- ENGINEERED CLU-LAM BEAMS AND POSTS SHALL COMPLY WITH "STANDARD SPECIFICATIONS FOR STRUCTURAL GLUED LAMINATED DOUGLAS FIR LAMBER". FABRICATOR SHALL SUBMIT A CERTIFICATE OF INSPECTION TO THE BUILDING OFFICIAL FOR EACH BEAM AND POST PRIOR TO ERECTION. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- JOISTS:
- "TRUSS JOIST" TYPE AS SHOWN ON THE DRAWINGS. PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. PROVIDE ALL REQUIRED BLOCKING, BRACING, HANGERS AND BRIDGING REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
- SHEET GOODS:
- CEILINGING: 5/8" CDX (MINIMUM 5 PLY) EXTERIOR 1 OR EQUIVALENT 5/8" OSB
- DECKING: 3/4" 48/24 STRUCTURAL GRADE, TABS PLYWOOD.
- BLOCKING AND MISCELLANEOUS ITEMS:
- PROVIDE AND INSTALL BLOCKING, BACKING AND MISCELLANEOUS FRAMING FOR ALL COMPONENTS AND EQUIPMENT AS SHOWN OR IMPLIED ON THE DRAWINGS AND OR AS REQUIRED FOR A PROPER INSTALLATION OF A BUILDING COMPONENT.
- HARDWARE:
- ALL ROUGH HARDWARE, FASTENERS AND MISC. ITEMS REQUIRED FOR PROPER INSTALLATION OF COMPONENTS AS SHOWN.
- WEATHER RESISTANT MEMBRANE:
- FURNISH & INSTALL TYVEK "STUCCO-WRAP" BY DUPONT COMPANY ON EXTERIOR OF ALL EXTERIOR WALL SHEATHING.
- 06200 Finish Carpentry
- FURNISH AND INSTALL ALL ITEMS NOT INCLUDED IN THE OWNER'S MILLWORK PACKAGE, INCLUDING BUT NOT LIMITED TO WOOD TRIM, MOLDINGS, WALL CAPS, LIGHT GUTTER, AND ACCESSORIES FOR A COMPLETE & PROPER INSTALLATION.
- 06410 Millwork
- INSTALL OWNER FURNISHED MILLWORK PACKAGE

DIVISION 7 – THERMAL & MOISTURE

- 07210 Building Insulation
- A. PROVIDE AND INSTALL BUILDING INSULATION SUCH AS MANUFACTURED BY THE MANVILLE CORPORATION OR EQUAL AT ALL EXTERIOR WALLS. PROVIDE TAPE AND SEALER AS RECOMMENDED BY MANUFACTURER OF INSULATION WITH FIRE RESISTIVE AND PERM RATING EQUAL TO THE INSULATION
1. FOIL-FACED BATT INSULATION INSTALLED IN ALL EXTERIOR STUD WALLS. R-19 MINIMUM
- FLAME SPREAD INDEX NOT TO EXCEED 75, SMOKE DEVELOPED INDEX NOT TO EXCEED 150
2. UNFACED BATT INSULATION INSTALLED IN ALL PERIMETER PARTITIONS OF TOILETS, OFFICES, MECHANICAL ROOM, KITCHEN AND IN OTHER INTERIOR PARTITIONS WHERE INDICATED ON DRAWINGS. R-11 MINIMUM
- FLAME SPREAD INDEX NOT TO EXCEED 10, SMOKE DEVELOPED INDEX NOT TO EXCEED 10.
3. SEMI-RIGID INSULATION BOARD INSTALLED IN ALL FURRED EXTERIOR WALLS. R-4.3 MINIMUM
4. FOUNDATION PERIMETER INSULATION (REQUIRED TO DEPTH AS DICTATED BY FROST LINE CONDITION).
- INSTALL 3/4" THICK "ENERGY SHIELD" RIGID INSULATION BOARD AT ALL PERIMETER FOUNDATIONS. R-5.2 MINIMUM.
- B. PROVIDE NOISE ABATEMENT SUCH AS NECESSARY TO SATISFY REQUIREMENTS OF LOCAL GOVERNING AUTHORITIES AS WELL AS ADJACENT TENANT
- 07511 Membrane Roofing Repair
- CONTACT WARRANTY OF EXISTING ROOFING SYSTEM AND REVIEW ALL PROPOSED MODIFICATIONS. INSPECT EXISTING ROOF WITH MANUFACTURER'S REPRESENTATIVE. REPAIR EXISTING MEMBRANE AT ALL PLACES OF NEW WORK TO PROVIDE COMPLETE WATERTIGHT ROOFING SYSTEM IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

- 07600 Flashing and Sheet Metal
- PROVIDE AND INSTALL ALL SLOPPERS, PITCH PANS, GUTTERS AND DOWNSPOUTS AS REQUIRED IN 24 GAUGE "PAINTGRIP" GALVANIZED IRON AS REQUIRED AND AS APPROVED BY THE ROOFING SYSTEM MANUFACTURER.

- 07700 Roof Specialties
- PROVIDE AND INSTALL 30" x 36" BILCO 5-20 SERIES, GALVANIZED STEEL ROOF HATCH.
- PROVIDE AND INSTALL ALL REQUIRED CURBS, VENTS, AND MISCELLANEOUS ROOF ACCESSORIES AS REQUIRED.

- 07920 Sealants and Caulking
- PROVIDE AND INSTALL ALL REQUIRED SEALANTS, CAULKINGS AND ACCESSORIES FOR ALL COMPONENTS OF THE WORK.

DIVISION 8 – DOORS AND WINDOWS

- 08100 Metal Doors and Frames
- A. PROVIDE AND INSTALL ALL 18 GAUGE HOLLOW METAL DOOR FRAMES WITH ANCHORS AND HARDWARE OUTLOTS
- B. PROVIDE AND INSTALL ALL 18 GAUGE HOLLOW METAL DOORS AS SHOWN. DOORS SHALL BE PREPARED TO RECEIVE FINISH HARDWARE AS APPROVED ON SUBMITTED SCHEDULE. FURNISH LABELS AS REQUIRED BY GOVERNING CODES.
- 08211 Flush Wood Doors
- PROVIDE AND INSTALL PLASTIC LAMINATE COVERED SOLID CORE FLUSH SLAB WOOD DOORS AND PAINTED WOOD DOORS (AW CUSTOM GRADE 1300-G-3, PG-5 CODE)
- 08380 Traffic Doors
- ELIASON CORP. MODEL SCP-4 W (REF. HARDWARE SCHED. FOR ADDITIONAL INFO)

- 08411 Aluminum Storefronts
- KAMMEER'S TRIFAB 451 SERIES OR EQUAL. DOUBLE GLAZED STICK SYSTEM FABRICATION 2" x 4-1/2" FRAMING.
- KAMMEER #80 EXT. DOORS. DARK BRONZE #40 ANODIZED ALUMINUM FINISH
- KAMMEER COMPANY, INC.

- 08412 Aluminum Entrance Doors
- KAMMEER WIDE STYLE ENTRANCE UNITS, VALSPAR #384F069 FLUOROPOLYMER PREMIER RED COAT. DARK BRONZE ANODIZED FRAMES TO MATCH STOREFRONT. HARDWARE AS SCHEDULED

- 08710 Finish Hardware
- SUBMIT HARDWARE SCHEDULE AND KEYING SCHEDULE BASED ON DOCUMENTS FOR APPROVAL. FURNISH AND INSTALL ALL FINISH HARDWARE ON APPROVED SCHEDULE. MOUNT ALL DOOR CLOSURES TO NON-PUBLIC SIDE OF DOORS

- 08800 Glazing
- COMPLY WITH ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT
- GLASS:
- PROVIDE AND INSTALL ALL INSULATED GLAZING AND SINGLE GLAZING AS REQUIRED FOR A COMPLETE INSTALLATION
- EXTERIOR GLAZING SHALL BE PPG 1 INSULATED UNITS W/ 5G-0.98 (1/4" BRONZE EXTERIOR & 1/4" CLEAR INTERIOR)
- MIRRORS:
- PROVIDE AND INSTALL MIRROR IN COSTUME ROOM

DIVISION 9 – FINISHES

- 09201 Exterior Insulation & Finish System
- PROVIDE ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLATION OF THE FLUID-APPLIED EIFS (DRYMT) SYSTEM, DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES TO PROVIDE A COMPLETE AND WATERPROOF INSTALLATION BY A MANUFACTURER LICENSED APPLICATOR.
1. THE DRYMT SYSTEM, INCLUDING ALL RELATED PRODUCTS AND MATERIALS, SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LATEST PUBLISHED RECOMMENDATIONS AND SPECIFICATIONS OF DRYMT SYSTEMS, INC
2. SUBMIT MANUFACTURER'S APPROVAL OF SUBSTRATE, SYSTEM & INSTALLER TO ARCHITECT WITH SAMPLES FINISH. DRYMT "SANDBLAST"
- 09260 Gypsum Wall Board System
- PROVIDE ALL GYPSUM WALLBOARD (5/8" TYPE A, GRADE X), CEMENT BACKERBOARD (DURLOCK OR WONDERBOARD), 1/2" GAUGE DRYWALL STUDS (2-1/2", 3-5/8" & 6"), METAL TRIM, CORNER BEADS, JOINTING SYSTEM, FASTENING DEVICES AND OTHER MATERIAL FOR A COMPLETE AND PROPER DRYWALL INSTALLATION.

- 09310 Porcelain Floor Tile
- PROVIDE AND INSTALL ALL SCHEDULED PORCELAIN FLOOR TILE IN PATTERNS AS SHOWN ON DRAWINGS.

- 09311 Ceramic Wall Tile
- PROVIDE AND INSTALL ALL SCHEDULED CERAMIC WALL TILE IN PATTERNS AS SHOWN ON DRAWINGS.

- 09330 Quarry Tile
- PROVIDE AND INSTALL ALL SCHEDULED QUARRY TILE IN SERVICE AREAS AS SHOWN ON DRAWINGS.

- 09510 Acoustical Ceilings
- PROVIDE ADEQUATE STRUCTURAL HEIGHT TO ALLOW 12' CEILINGS. PROVIDE CEILINGS AT ELEVATIONS SCHEDULED IN LOCATIONS WITH LATERAL BRACING AS SHOWN ON DRAWINGS.

- 09660 Resilient Flooring
- PROVIDE AND INSTALL RESILIENT FLOORING WHERE SCHEDULED WITH ADHESIVE AS APPROVED BY THE MANUFACTURER.

- 09678 Resilient Base
- PROVIDE AND INSTALL 4" HIGH RUBBER BASE AS SCHEDULED WITH ADHESIVE AS APPROVED BY THE MANUFACTURER.

- 09697 Carpet
- PROVIDE AND INSTALL CARPET, BLACK TRANSITION STRIPS AND ACCESSORIES AS SCHEDULED

- 09900 Painting
- PROVIDE AND APPLY PAINT TO ALL INTERIOR AND EXTERIOR SURFACES REQUIRED TO RECEIVE PAINT. ALL SURFACES SHALL BE PREPARED, PRIMED AND PAINTED WITH SHERWIN WILLIAMS MATERIALS FORMULATED FOR THE SPECIFIC SURFACE. SUBMIT SCHEDULE, SAMPLES, MANUFACTURERS PRODUCT DATA AND COLORS FOR APPROVAL PRIOR TO STARTING WORK.

- 09971 Fiberglass Wall Panels
- PROVIDE AND INSTALL SCHEDULED FRP WITH ACCESSORIES AND TRIM WHERE SHOWN ON DRAWINGS.

- 09972 Marlite Wall Panels
- PROVIDE AND INSTALL SCHEDULED MARLITE PANELS WHERE SHOWN ON DRAWINGS

DIVISION 10 – SPECIALTIES

- 10162 Toilet Partitions
- PROVIDE AND INSTALL FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS AS MANUFACTURED BY AMPCO PRODUCTS, INC. OR APPROVED EQUAL WHERE SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN FOR COMPLETE INSTALLATION.
1. HIGH PRESSURE LAMINATE (HPL) GLAD COMPARTMENTS:
- A. COLORS: WILSONART HOLLY BERRY 0307-90 CRYSTAL FINISH.
- B. CORE: 3 PLY, 42/45 LB. DENSITY PARTICLEBOARD.
- 1) DOORS: 7/8" THICK WITH SHARP EDGES REMOVED.
- 2) PANELS: 7/8" THICK
- 3) PILASTERS: 1-1/4" THICK
2. TOP BRACKETS:
- A. BRIGHT ANODIZED ALUMINUM CHANNEL 1-7/16" X 1-1/4" ANTI-GRIP DESIGN AND THRU-BOLTED THROUGH FRONTS.
- B. FRONT SHALL BE SECURED TO THE FLOOR WITH 12 GAUGE TYPE 304 STAINLESS ANGLE AND TWO (2) 5/16" STUDS WITH LOCKING NUTS AND WASHERS.
3. FLOOR SHOE: ONE PIECE, 3" HIGH, STAINLESS STEEL.
4. ACCESSORIES: COMBINATION COAT HOOK AND BUMPER AT EACH STALL.
5. HARDWARE: COMPARTMENTS SHALL HAVE ALL HARDWARE AND FASTENERS NECESSARY FOR COMPLETE INSTALLATION.
- A. HINGES SHALL BE SURFACE MOUNTED AND MADE OF CHROME PLATED ZAMAC.
- B. TOP HINGES SHALL HAVE CONCEALED ABS ADJUSTABLE CAMS WITH CHROME PLATED ZAMAC REINFORCING PIN.
- C. STOP, KEEPER AND SLIDE LATCH SHALL BE CHROME PLATED ZAMAC.
- D. ALL BRACKETS SHALL BE CHROME PLATED ZAMAC.
- E. ALL HARDWARE SHALL BE THRU-BOLTED WITH ONE-WAY FASTENERS

- 10260 Wall Corner Guards
- A. PROVIDE AND INSTALL "WHITE GLOSSY" CORNER GUARDS (1-1/8" X 4'-0") AT ALL EXPOSED WALL CORNERS EXCEPT KITCHEN AREAS.
- B. PROVIDE AND INSTALL "WHITE GLOSSY" CORNER GUARDS (1-1/8" X 4'-0") AT ALL EXPOSED HEADER CORNERS IN RESTROOMS & KITCHEN AREAS.
- C. PROVIDE AND INSTALL STAINLESS STEEL CORNER GUARDS (2" x 2" x 18 GAUGE x FULL HEIGHT) AT ALL EXPOSED WALL CORNERS IN KITCHEN. REF. A9.1
- 10400 Signage
- A. FURNISH ALL REQUIRED PERMITS, LABOR, SUPERVISION, MATERIALS, SERVICES AND EQUIPMENT REQUIRED IN CONNECTION WITH REQUIRED SIGNAGE. COORDINATE AND PROVIDE ALL ELECTRICAL CONNECTIONS TO OWNER'S SIGN COMPANY.
- B. FURNISH AND INSTALL ALL EXTERIOR ADDRESS SIGNAGE, PARKING LOT SIGNAGE FOR ADA AND ALL INTERIOR ADA AND RESTROOM SIGNAGE.

- 10521 Portable Fire Extinguishers
- PROVIDE AND INSTALL A FIRE EXTINGUISHER WITH CABINET AT EACH EXT AND WITHIN 10' OF EACH COOKING SURFACE. EXITS: AMBASSADOR SERIES #D17-S21 ABC RATED 10LB. "COSMIC" 10C. COOKING SURFACE: 40BC.

- 10701 Exterior Backlit Awnings
- COORDINATE AND FURNISH ELECTRICAL FOR BACKLIT AWNINGS TO BE PROVIDED AND INSTALLED OWNER'S SIGN COMPANY, FOR A COMPLETE AND PROPER INSTALLATION.

- 10800 Toilet Room Accessories
- PROVIDE AND INSTALL TOILET ROOM ACCESSORIES AS SCHEDULED AND AS REQUIRED BY ADA AND LOCAL AND STATE ACCESSIBILITY CODES.

DIVISION 11 – EQUIPMENT

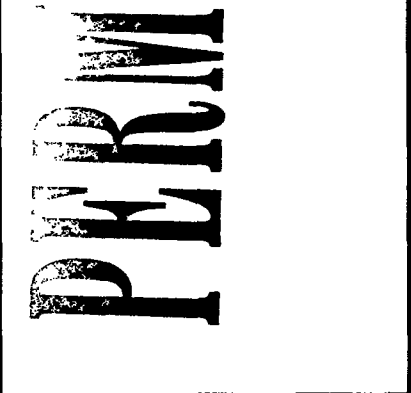
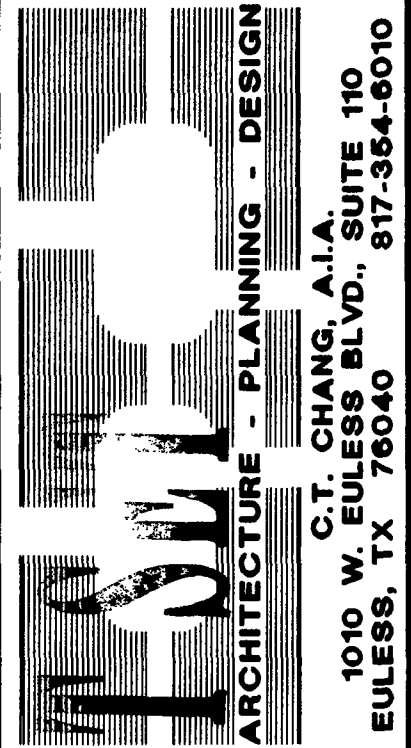
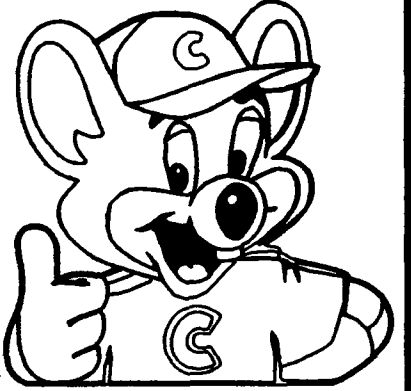
- 11400 Fixtures and Equipment
- INSTALL ALL FIXTURES AND EQUIPMENT AS SCHEDULED FOR A COMPLETE AND PROPER OPERATION. GENERAL CONTRACTOR SHALL COORDINATE AND INTERFERE WITH THE WORK OF THIS SECTION, INCLUDING BUT NOT LIMITED TO WOOD BLOCKING, ANCHORS, ASSEMBLY, INSTALLATION, HOOK-UP AND START-UP OF ALL REQUIRED EQUIPMENT.

DIVISION 12 – FURNISHINGS

- 12100 Decor
- COORDINATE THE INSTALLATION OF OWNER FURNISHED DECOR AND SIGNAGE
- 12520 Window Shades
- COORDINATE, OWNER SUPPLIED, VENDOR INSTALLED
- 12600 Furniture
- INSTALL AND SET UP OWNER FURNISHED FURNITURE.

DIVISION 13 – DIVISION 14

- NOT USED
- 15331 Fire Sprinkler System Modifications
- INSTALL NEW SPRINKLER & ALARM SYSTEM TO LOCAL RESTAURANT CODES, INCLUDING FIRE ALARM CONTROL PANEL (FACP) IF REQUIRED BY GOVERNING AGENCIES. SUBMIT DRAWINGS TO ARCHITECT FOR REVIEW



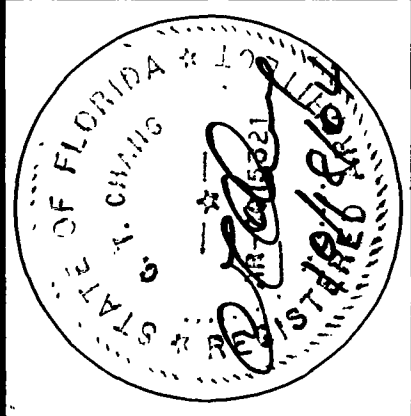
CHUCK E. CHEESE'S PIZZA.

780

3500 SW COLLEGE ROAD UNIT 200
OCALA, FL

C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

SPECIFICATIONS



Date	10/18/2004
Revisions	
Project Number	SB-780
Sheet Number	SP1
of	1

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/ PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"

MEP21

SPECIFICATIONS
DIVISION 15 — MECHANICAL

SECTION 15010 — STANDARD PROVISIONS

1. GENERAL CONDITIONS: The General Conditions, Special Conditions, Supplementary Conditions and the Mechanical specifications of the Main Specifications and "General Conditions of the Contract", current edition, established in standard form by the American Institute of Architects shall apply to all work on this project except as modified below. This Contractor shall familiarize himself with these provisions and adhere to these requirements. This Contractor shall coordinate his work with other trades and tenant requirements prior to installation.
2. SCOPE
 - A. All material and equipment required by these specifications shall be furnished and completely installed together with all accessories and equipment required to allow operation of all equipment and systems as indicated herein and as normally required for mechanical service
3. RELATED DOCUMENTS: This Contractor is referred to the Architectural and Electrical plans and specifications. Such plans and specifications are a part of the contract documents. Contractors shall visit the site and familiarize themselves with all conditions surrounding the work. If any of the conditions require a modification of the systems indicated by these plans and specifications, the Contractor shall advise the Architect of the required modifications and if approved, include the cost of such modifications in his bid.
4. PERMITS AND APPROVALS: Contractor shall provide all required permits and approvals. All work shall be performed in compliance with applicable codes, including local building, mechanical and electrical codes, ADA and Life Safety 101.
5. PLANS AND SPECIFICATIONS: Throughout the course of the work, minor change and adjustments to the plans and specifications may be requested by the owner. The contractor shall make such adjustments without additional cost to the owner, where such adjustments are necessary for the proper installation and operation of the systems, and within the intent of the contract documents. It is the intent of the plans and specifications for form a guide for a complete installation. Everything necessary for the completion and successful operation of the work, whether of not herein definitely specified or indicated on the drawings shall be furnished and installed as if specified or indicated herein at no additional cost to the owner. The Mechanical Contractor shall verify all dimensions and lengths prior to installation.

Notwithstanding any other provisions of the contract documents, the Contractor bears ultimate responsibility for compliance of the installation with the requirements for the landlord and the local authority having jurisdiction

If any errors, discrepancies or omissions appear in the drawings, specifications or other such contract documents, the Contractor shall notify the Engineer in writing of such error or omission. In the event of the contractor failing to give such notice before construction, the errors, discrepancies or omissions shall be rectified by the contractor at no additional cost to the owner

AS-BUILT DRAWINGS AND GUARANTEES

- A. Provide as-built drawings, maintenance and operating manuals
 - B. Guarantees shall be one year.
7. MATERIALS AND EQUIPMENT: Materials and equipment shall be new and approved by Architect. Minimum standard shall be as specified herein or as required by code, whichever is more stringent. All equipment provided shall be UL listed unless Underwriters Laboratories does not test that type of equipment
 8. UTILITY CONNECTIONS: Make all connections to existing utilities
 9. SUBSTITUTIONS: Approval of Engineer required
 10. WARRANTY: The Mechanical Contractor shall provide a written warranty that the entire installation is free from defects in materials and workmanship for a period of one year

SECTION 15042 — TESTING AND ADJUSTING

1. All pipes shall be tested before they are concealed in furrings or chases, insulated, painted, or otherwise covered up or rendered inaccessible. Testing shall be accomplished by section of line or systems as required by the conditions during construction.
 - A. Soil, waste, vent, and drain lines: After all vertical soil, waste and vent lines have been set, all the outlets shall be temporarily plugged up. The pipes shall be filled with water, full to the top and allowed to remain so for at least four (4) hours. A final test shall be made after all vertical and horizontal soil, waste, and vent pipes have been installed, and before the sewer connections are made. In this case, as before, all pipes shall be filled to the top of the vertical lines and allowed to remain so for four (4) hours.
 - B. Minimum test pressure for all sections of piping shall be five (5) feet of water
 - C. Water Systems: All water lines shall be tested under a hydrostatic pressure of 150 psig and proved tight.
2. Any leaks in piping systems shall be repaired. Leaks in soldered joints shall be repaired by remaking the joint and not soldering or brazing over existing joints will be permitted. Leaks in screwed joints shall be repaired by remaking the joint if tightening fails to stop the leak. Leaks in the caulked joints may be stopped by additional caulking of the joint, but, if that fails, the joints shall be remade. When any defect is repaired, that section of the system shall be retested and proved tight

SECTION 15050 — BASIC MATERIALS AND METHODS

1. HANGERS: All pipe, one per section, per manufacturer's recommendations.
2. ACCESS DOORS: Provide for valves and equipment in concealed spaces.
3. PAINTING: Finish painting of exposed materials and equipment is excluded from Division 15.
4. All equipment shall be installed level
5. SLEEVES: Provide where pipes pass through floors or exterior walls.
6. VALVES, STRAINERS AND UNIONS
 - A. Provide only approved material
 - B. Isolate every piece of equipment and fixture with cut-off valves and unions.
 - C. Valves shall be selected for proper service
 - D. Strainers and checks shall be provided to protect equipment and provide proper flow control
7. CUTTING AND PATCHING: Do not cut structural members without first obtaining written permission from the Engineer.
8. ROOF PENETRATIONS: Provide all curbs flashings and waterproofing required to complete installation in a manner satisfactory to the Engineer
9. ROUGH-IN AND FINAL CONNECTIONS: Provide as required for all equipment furnished by others
10. IDENTIFICATION
 - A. Provide approved identification nameplates for all equipment. Use approved identification names.
 - B. Provide pipe identifiers for all piping
 - C. Label all valves.
11. PIPING REQUIREMENTS: All piping methods shall conform to industry standards.

SECTION 15056 — DOMESTIC WATER PIPING

1. SCOPE: Extend domestic cold water as shown
2. PIPING SYSTEM
 - A. Piping above grade shall be Type L hard copper with solder joint fittings.
 - B. A lead-free solder must be used on all domestic water piping
 - C. Provide dielectric unions at all connection and joints between different materials.

SECTION 15062 — SANITARY DRAINAGE

1. BURIED WITHIN 5 FEET OF BUILDING:
 - A. Cast iron Pipe: ASTM A74 service weight. Fittings: Cast iron. Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum
 - B. PVC Pipe: Schedule 40 pvc piping with solvent welded pvc pipe fittings may be used if approved by local authorities
2. ABOVE GRADE
 - A. Cast iron Pipe: ASTM A74, service weight. Fittings: Cast iron. Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C564 neoprene gaskets or lead and oakum
 - B. Cast iron Pipe: CISPI 301, hubless, service weight. Fittings: Cast iron. Joints: Neoprene gaskets and stainless steel clamp-and-shield assemblies. ("No Hub")
 - C. PVC Pipe: Schedule 40 pvc piping with solvent welded pvc pipe fittings may be used if approved by local authorities.
3. Install sanitary drainage piping true to line with proper grading. Connect horizontal branches to one another with 45 degree "Y" fittings, combination "Y" and 1/8 bend fittings. Connect horizontal lines to vertical stacks using 45 degree "Y" branches, 60 degree "Y" branches or combination "Y" and 1/8 bend fittings. Horizontal branches turning down to vertical stacks may use a short sweep or 1/2 bend. Branches connecting to mains or to other branches shall enter the branch line at a 45 degree angle, tilted 45 degrees upward, so that the entry is from the side and top.
4. CLEANOUTS: Provide with approved covers.

SECTION 15180 — INSULATION

1. SCOPE: Completely insulate all systems as follows.
2. DUCTWORK
 - A. Supply concealed — 2 inch wrap.
 - B. Provide 1" liner in supply and return ducts 15 feet from blower.
3. PIPING
 - A. Domestic cold water — 1/2 inch fiberglass or Armaflex
 - B. Hot water piping insulation shall be 1-1/2" fiberglass.
4. INSTALLATION: Installation shall be per manufacturer's recommendations. Provide vapor barrier on cold water insulation.

SECTION 15500 — FIRE PROTECTION

1. The fire protection contractor shall provide all engineering, design, labor, and materials for fire protection system. All aspects of the design, installations and equipment shall conform to the rules, regulations and requirements of the current standards of NFPA, UL, FM and all state, city and local codes, rules and regulations.
2. All piping shall be schedule 40 black steel pipe with grooved and/or screwed fittings.
3. Sprinkler heads shall be U.L. and F.M. approved for the use intended and shall be of the proper temperature rating. Sprinkler heads shall be chrome plated, pendent type heads, set in chrome plated or white plastic escutcheon plates (approximately 1/2" deep) and connected to piping run above the ceiling.

SECTION 15700 — AIR CONDITIONING UNITS/CURBS

1. Provide Rooftop Air Conditioning Units (RTU) divided into zones as shown. Units shall be Carrier, Rooftop, Single Package Type, Combination DX cooling and Gas fired heating, mounted on a full perimeter factory curb and integral wiring. Contact Laraine Smith at UTC Carrier, A&R Bldg., Corner Parkway, Syracuse, NY 13221. Ph (800)-690-1081
2. Provide accessories and install system per the recommendations of the equipment manufacturer

SECTION 15841 — LOW VELOCITY DUCTWORK

1. SCOPE: Provide sheet metal air distribution systems including all material, equipment and accessories for future connections to complete systems.
 - A. Heating and cooling supply air ducts. Maximum length of flex duct shall be 5' for connection to diffusers.
2. All materials and installation shall comply with local codes. Provide fire dampers at all penetrations to fire rated walls and ceilings
3. SHEET METAL: All fabrication per SMACNA standards.

SECTION 15901 — AUTOMATIC CONTROLS

1. Provide new Carrier comfort control panel and space sensors for all units as shown. Coordinate the application of the equipment with the rooftop as required.
2. Interlock exhaust fans serving toilets with lights in the toilets

SECTION 15988 — HVAC TESTING AND BALANCING

1. Upon completion of the installation and start-up of the systems, inspect, check, test, adjust, balance and record data on the performance of the air systems and components thereof.
2. The following basic components of the HVAC systems shall be tested, adjusted and balanced
 - A. Air Distribution Systems
 - B. Air Moving Equipment
 - C. Control Systems Verification
3. Services required:
 - A. Test, adjust and balance the HVAC systems to provide optimum temperature, airflow and noise conditions in the conditioned spaces in the building while the HVAC equipment is operating efficiently
 - B. Perform testing, adjusting, balancing and logging actual data on all air distribution and air moving equipment, heating and cooling equipment and the operating conditions of all motors, etc. as indicated in this specification.
4. Provide a complete report to owner as a condition of final payment. (Utilize CEC vendor listed on A8.0)

SECTION 15999 — COMPRESSED AIR SYSTEM

1. Provide complete compressed air line system as required by owner, install owner furnished compressor. Furnish and install all components and accessories as shown for a complete working system
2. System requires type L copper piping.

SPECIFICATIONS
DIVISION 16 — ELECTRICAL

SECTION 16010 — GENERAL

1. GENERAL CONDITIONS: The General Conditions, Special Conditions, Supplementary Conditions and the Electrical specifications of the Main Specifications and "General Conditions of the Contract", current edition, established in standard form by the American Institute of Architects shall apply to all work on this project except as modified below. This Contractor shall familiarize himself with these provisions and adhere to these requirements. This Contractor shall coordinate his work with other trades and tenant provisions prior to installation
2. SCOPE
 - A. All material and equipment required by these specifications shall be furnished and completely installed together with all accessories and equipment required to allow operation of all equipment and systems as indicated herein and as normally required for mechanical service
3. RELATED DOCUMENTS: This Contractor is referred to the Architectural and Mechanical plans and specifications. Such plans and specifications are a part of the contract documents. Contractors shall visit the site and familiarize themselves with all conditions surrounding the work. If any of the conditions require a modification of the systems indicated by these plans and specifications, the Contractor shall advise the Architect of the required modifications and if approved, include the cost of such modifications in his bid.
4. PERMITS AND APPROVALS: Contractor shall provide all required permits and approvals. All work shall be performed in compliance with applicable codes, including local building, mechanical and electrical codes, ADA and Life Safety 101.
5. PLANS AND SPECIFICATIONS: Throughout the course of the work, minor change and adjustments to the plans and specifications may be requested by the owner. The contractor shall make such adjustments without additional cost to the owner, where such adjustments are necessary for the proper installation and operation of the systems, and within the intent of the contract documents

It is the intent of the plans and specifications for form a guide for a complete installation. Everything necessary for the completion and successful operation of the work, whether of not herein definitely specified or indicated on the drawings shall be furnished and installed as if specified or indicated herein at no additional cost to the owner. The Electrical Contractor shall verify all dimensions and lengths prior to installation.

Notwithstanding any other provisions of the contract documents, the Contractor bears ultimate responsibility for compliance of the installation with the requirements for the landlord and the local authority having jurisdiction.

If any errors, discrepancies or omissions appear in the drawings, specifications or other such contract documents, the Contractor shall notify the Engineer in writing of such error or omission. In the event of the contractor failing to give such notice before construction, the errors, discrepancies or omissions shall be rectified by the contractor at no additional cost to the owner.

AS-BUILT DRAWINGS AND GUARANTEES

- A. Provide as-built drawings, maintenance and operating manuals.
 - B. Guarantees shall be one year.
7. MATERIALS AND EQUIPMENT: Materials and equipment shall be new and approved by Architect. Minimum standard shall be as specified herein or as required by code, whichever is more stringent. All equipment provided shall be UL listed unless Underwriters Laboratories does not test that type of equipment.
 8. UTILITY CONNECTIONS: Make all connections to existing utilities.
 9. SUBSTITUTIONS: Approval of Engineer required.
 10. WARRANTY: The Mechanical Contractor shall provide a written warranty that the entire installation is free from defects in materials and workmanship for a period of one year.
 11. EXAMINATION OF SITE: Examine and inspect the site to determine conditions which will affect the work and include all work related to site conditions in the bid proposal.
 12. CUTTING AND PATCHING: Coordinate the work to eliminate the cutting of existing work where possible. Where cutting of the existing work is necessary to accommodate the new construction, cut work in an approved and timely manner and patch work immediately thereafter to match existing construction
 13. PAINTING: Material in mechanical and electrical rooms shall contain cleaned factory finishes.
 14. IDENTIFICATION OF ELECTRICAL EQUIPMENT: Label all switchgear, panels, starters, disconnects, etc., with engraved laminated nameplates attached to equipment. Label switches in a similar manner for switches not in sight of the load they control
 15. RECORDS FOR OWNER: Provide copy of as-built drawings, approved shop drawings, maintenance and parts list of all equipment. Record drawings shall be reproducible

SECTION 16100 — SERVICE

Provide and install a metered service as shown in accordance with all applicable codes. All components shall be as required by the National Electric Code

SECTION 16120 — CONDUCTORS

Conductors shall be copper, THWN/THHN for branch circuits, THW or THWN for feeders, installed in accordance with NEC. Minimum size shall be #12 AWG except homerun greater than 100 feet which shall be #10 AWG minimum. Color code all wiring.

SECTION 16140 — WIRING DEVICES

1. Outlet Boxes: Galvanized stamped steel for all interior locations. Mount all boxes so that covers and plates will mount flush with the wall and ceiling finished surface. Provide plaster rings as necessary. Goof rings are not acceptable.
2. Engineer reserves the right to make minor changes.
3. All bars, hangers or caddy clips shall be galvanized steel. No wooden supports or makeshift devices will be allowed.
4. Switches receptacles, and covers shall be white unless otherwise noted.
5. Provide rain tight metal boxes with threaded conduit holes and cast metal face plates with spring hinged caps for wet locations.
6. Except as noted locate wall outlets at listed below:
 - A. Switches: 48"
 - B. Receptacles: 18"
 - C. Telephone: 18"
 - D. Thermostats: 54"
 - E. Kitchen and Bath: (6" above countertop)
 - F. Wall Telephone: 54"
7. When installed in masonry walls, located bottom of box at nearest masonry joint to dimension indicated., where outlets occur above counters or cabinets, correlate height of outlet with equipment so device will clear all trim.
8. Devices shall be specification grade, 20 amp minimum. Manufactures: Pass & Seymour, GE or Hubbell. Switches to be quiet type.
9. Switches mounted on the strike side of doors.
10. Devices to have smooth white nylon plates as required by the device. Outlets without devices, except telephone, to have blank white plates. Fasten plates in place by oval head screws, matching white device

SECTION 16180 — DISCONNECTS

Furnish and install heavy duty disconnects for all motors located within 50 feet and in sight of each motor.

SECTION 16300 — RACEWAY SYSTEMS

- A. Rigid steel Conduit: Shall be constructed of mild steel piping, galvanized inside and outside. Conforming in all respects with federal Specification WW-C-581C, ANSI C80.1, and applicable UL standards. Join rigid steel conduit by using hot-dipped galvanized threaded couplings.
- B. Electric metallic tubing (EMT): EMT shall be of high grade, steel, manufactured specifically to standards assuring maximum welding characteristics and ductility. EMT shall conform in all respects to Federal Specification WW-T-806b.
- C. Polyvinyl chloride nonmetallic-conduit (PVC): PVC conduit shall be rigid, Schedule 40, conforming in all respects to the applicable requirements of ASTM D-1784, D-883 and D-1600, and NEMA 3-9. PVC conduit shall be type U (designed for underground installation without encasement concrete) joined with EPC-40-PVC couplings of the solvent cement type to provide complete water tight joints. Conduit systems shall be UL listed for underground use, and shall be in conformance with the NEC
- D. Corrosion protected conduit: shall be rigid steel conduit exactly as specified above furnished with a permanent, factory-fused polyvinyl jacket not less than 40 mils thick
- E. Flexible metal conduit: shall be manufactured of mild steel strip material having a hot dip galvanized coating and meeting requirements of Federal Specification WW-C-566b for flexible metal conduit
- F. Liquid tight flexible conduit: shall be manufactured exactly as specified for flexible metal conduit and, in addition, shall have a copper grounding strand and factory applied neoprene jacket. Liquid tight flexible conduit shall be UL Listed, Anacoonda "Sealtite", Type UA

SECTION 16400 — DISTRIBUTION AND LIGHTING PANELBOARDS

All panelboards and switchgear shall be from one manufacturer, in accordance with NEMA standards and bear Underwriters' Lab labels

SECTION 16450 — GROUNDING

1. Grounding shall be in accordance with NEC Article 250.
2. Provide green coated continuous grounding conductor, in addition to neutral for each circuit run as shown in the panel schedules. Neutral shall not be used as a ground for equipment. Equipment ground bonded to neutral at main service entrance only.

SECTION 16480 — TRANSFORMERS (NOT USED)

1. Provide three-phase, 60 cycle, dry-type, enclosed, air-cooled transformers where indicated on drawings. KVA rating shall be as noted. Transformers shall bear the UL label. Transformers shall have permanent nameplates with voltages, kva ratings, overload capacity based on allowable temperature rise, and connection diagram.
2. Units shall have Class "H" insulation with sound rating not to exceed 45 db in the 15 to 50 KVA size, 50 db in the 51 to 150 KVA size, and 55 db in the 151 to 300 KVA size.
3. Voltage rating shall be 480 volts, delta, primary and 120/208 volts, wye, secondary. Provide six 2-1/2% voltage taps, four below and two above normal voltage.
4. Temperature rise shall not exceed 150 degrees C above a 40 degrees C ambient. Coils and core shall be mounted on vibration insulators.
5. Ground the secondary neutral of transformers to grounding conductor extended from ground bars as indicated on the drawings, and to the transformer enclosure
6. Transformers shall be manufactured in accordance with latest NEMA and UL Standards.

SECTION 16500 — LIGHTING

Provide exit lights to comply with local codes and connect to the emergency power source. All Light fixtures shall be located per the architectural plans. Furnish and install all lighting fixtures with lamps as scheduled. Contact Charlie Pike at Deders Electric, Irving, TX 214/790-7000.

SECTION 16823 — MECHANICAL EQUIPMENT WIRING

Provide connection to mechanical equipment as required by equipment supplier in accordance with the NEC and other applicable NFPA standards.

SECTION 16721 — FIRE ALARM SYSTEMS

Furnish and install complete Fire Alarm System as required by local codes, including all required agency submittals, fees, permits and approvals

SECTION 16725 — SECURITY ACCESS SYSTEM

Provide power and coordinate installation with Owner's Security Access installer.

SECTION 16740 — PHONE BOARD

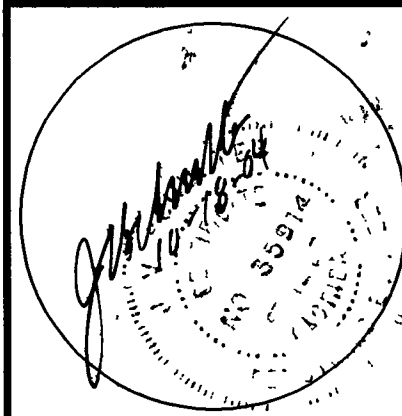
Provide the necessary telephone rough-ins for the system selected by the owner



ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
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EULESS, TX 76040

780
CHUCK E. CHEESE'S PIZZA.
OCALA, FL

3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75002



Date
10/18/2004

Revisions

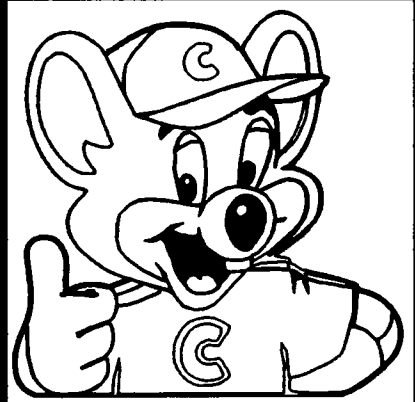
Project Number
SB-780

Sheet Number

MEP2.1

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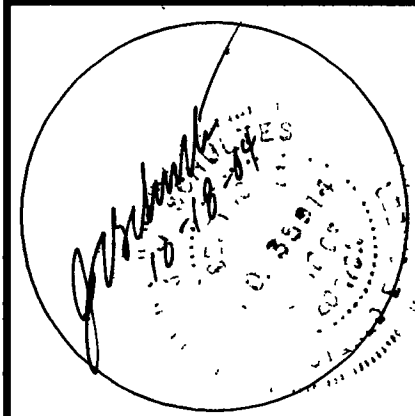
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CHUCK E. CHEESE'S PIZZA.

3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
OCALA, FL
PARTIAL PLUMBING FLOOR PLAN



Date
10/18/2004
Revisions
Project Number
SB-780
Sheet Number
P2.1
of 6

NOTES BY SYMBOL (WATER)

- 1 INSULATED HOT AND COLD WATER PIPING ABOVE CEILING. (TYPICAL)
- 2 1 1/2" HOT & COLD WATER PIPING AT WATER HEATER. SEE W.H. DETAIL 01/P.3.1. TERMINATE T&P RELIEF DRAIN AT 3"FD BELOW. INSULATE ALL WATER PIPING IN WALLS (TYPICAL).
- 3 INSULATED H. & C. WATER DOWN IN WALL TO FIXTURE. INSULATE ALL WATER PIPING IN WALLS (TYPICAL).
- 4 WATER PIPING IN WALL TO TOILET ROOM FIXTURES. PROVIDE HAMMER ARRESTER AND ACCESS PANEL. LOCATED IN MEN'S ROOM. INSTALL ABOVE FLOOR TILE BASE AND BELOW GRAB BAR, 24" OFF CENTER OF TOILET.
- 5 INSTALL MIXING VALVE "MV-1" AT FIXTURE. CONNECT TO SUPPLY PIPING TO FIXTURE. SET WATER TEMP. @ 110°F. SEE DETAIL 18/P.3.2. INSTALL MIXING VALVE ABOVE CEILING AT HAND SINKS AND BELOW FIXTURE AT LAVATORIES
- 6 3/4" H&C WATER SUPPLY PIPING DN. IN WALL TO MOP SINK.
- 7 PROVIDE DUAL CHECK VALVE "CHUDNOW" SERIES #914 (OR EQUAL) WITH ASSE 1032 LISTING. INSTALL AT EQUIPMENT CONNECTIONS. FOR SODA EQUIPMENT, VALVE MUST BE STAINLESS STEEL. PROVIDE WATTS 009QT (RPZ) BEFORE DUAL CHECK VALVE. SEE DETAIL 02/P.3.1.
- 8 3/4" HOT AND COLD WATER PIPING DOWN IN WALL WITH 1/2" SUPPLIES (Ø 12" AFF) TO 3-COMP SINK FAUCETS.
- 9 ICE MACHINE 3/4" WATER SUPPLY TO WATER FILTER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO WATER FILTER. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P.3.1.
- 10 1/2" HOT AND COLD WATER TO PRE RINSE. INSTALL SUPPLIES Ø 12" A.F.F.
- 11 1/2" WATER SUPPLY 38" A.F.F. FOR COFFEE MAKER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO EQUIPMENT. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P.3.1.
- 12 3/4" HOT (140°F) WATER TO LOW TEMP. DISHWASHER. PROVIDE RPZ VALVE. INSTALL AT 61-3/4" A.F.F.
- 13 PROVIDE AND INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER "WATTS 007-QT" BACKFLOW PREVENTER. INSTALL DCV ON MAIN WATER SERVICE. MOUNT UNIT ON WALL 5'-0" A.F.F. MAX. COORDINATE WITH OTHER EQUIPMENT ON WALL. UNIT MUST BE TESTABLE AND INSTALLED AT HEIGHT ACCESSIBLE FOR TESTING.
- 14 INSTALL CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO MOP SINK
- 15 1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT. (PROVIDE RPZ VALVE). SEE DETAIL 19/P.3.2.
- 16 GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 01/P.3.1.
- 17 LOW PRESSURE GAS CONNECTION POINT FOR PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL 08/P.3.2.

NOTE:
REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P.3.1 FOR WATER SUPPLY SIZES AND INSTALLATION HEIGHTS.

NOTES BY SYMBOL (WASTE)

- 1 VENT PIPING ABOVE CEILING. (TYPICAL)
- 2 WASTE PIPING BELOW CEILING. (TYPICAL)
- 3 FLOOR SINK FOR INDIRECT WASTE FROM EQUIPMENT (TYPICAL)
- 4 FLOOR SINK AT DISHWASH EQUIPMENT. CONNECT TO GREASE WASTE PIPING SYSTEM.
- 5 VENT PIPING IN WALL Ø 42" A.F.F. SEE PLUMBING RISER.
- 6 SINK PROVIDED BY KITCHEN CONTRACTOR. TERMINATE DRAIN INDIRECT WITH AIR-GAP AT FLOOR SINK BELOW. SEE DETAIL 04/P.3.1
- 7 FLOOR SINK FOR INDIRECT WASTE FROM SINKS.
- 8 CLOSET. SEE TRAP PRIMER DETAIL 02/P.3.3. (NOT USED)
- 9 HAND SINK "HIS" PROVIDED BY KITCHEN CONTRACTOR.
- 10 FLOOR SINK FOR INDIRECT WASTE. TERMINATE DRAIN PIPING FROM WALK-IN COOLER, AND BEER TAPS AT FLOOR SINK WITH CODE APPROVED AIR-GAP. SEE ARCHITECTURAL DETAIL FOR INSTALLATION AND ROUTING OF DRAIN LINES FROM BEER TAPS.
- 11 GREASE INTERCEPTOR VENTS. SEE PLAN SHEET P.1.1 AND GREASE INTERCEPTOR DETAIL 01/P.3.3.
- 12 TRAP PRIMER VALVE ("TP-1") IN ACCESS PANEL. SEE TRAP PRIMER DETAIL ON SHT. P.3.3. INSTALL VALVE ABOVE FLOOR TILE BASE AND BELOW GRAB BAR, 24" OFF CENTER OF TOILET.

- NOTE:
1. ALL EXPOSED INDIRECT WASTE PIPING TO BE DWV HARD COPPER. REFERENCE GENERAL NOTE #10 ON SHEET P.3.1
2. REFERENCE FIXTURE UNIT COUNT /CONNECTION SCHEDULE ON SHEET P.3.1 FOR SIZES AND TYPE OF CONNECTION

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET A9.0 FOR EQUIPMENT PLAN.

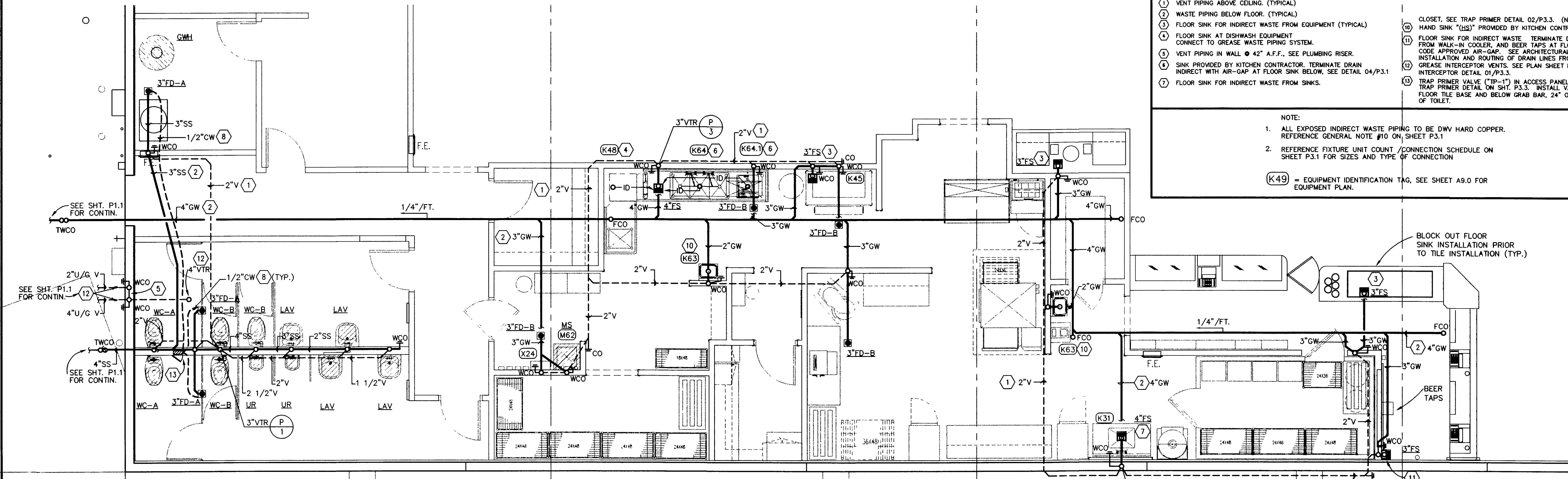
BLOCK OUT FLOOR SINK INSTALLATION PRIOR TO TILE INSTALLATION (TYP.)

02 PLUMBING WATER PLAN

SCALE: 1/4"=1'-0"

01 PLUMBING WASTE PLAN

SCALE: 1/4"=1'-0"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 COLOR
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 PEN NO.
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 SCREEN %

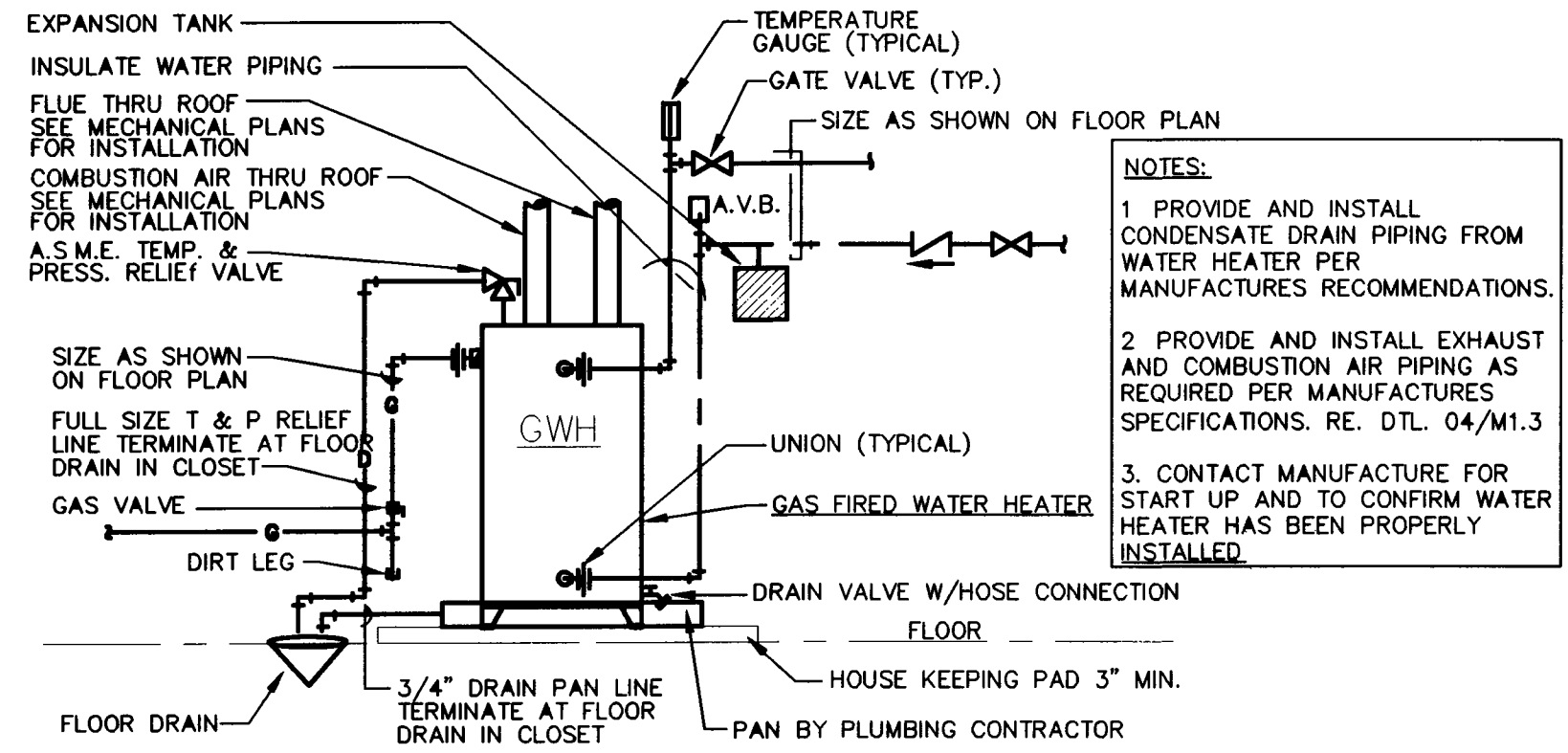
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

PLUMBING FIXTURE UNIT COUNT / CONNECTION SCHEDULE

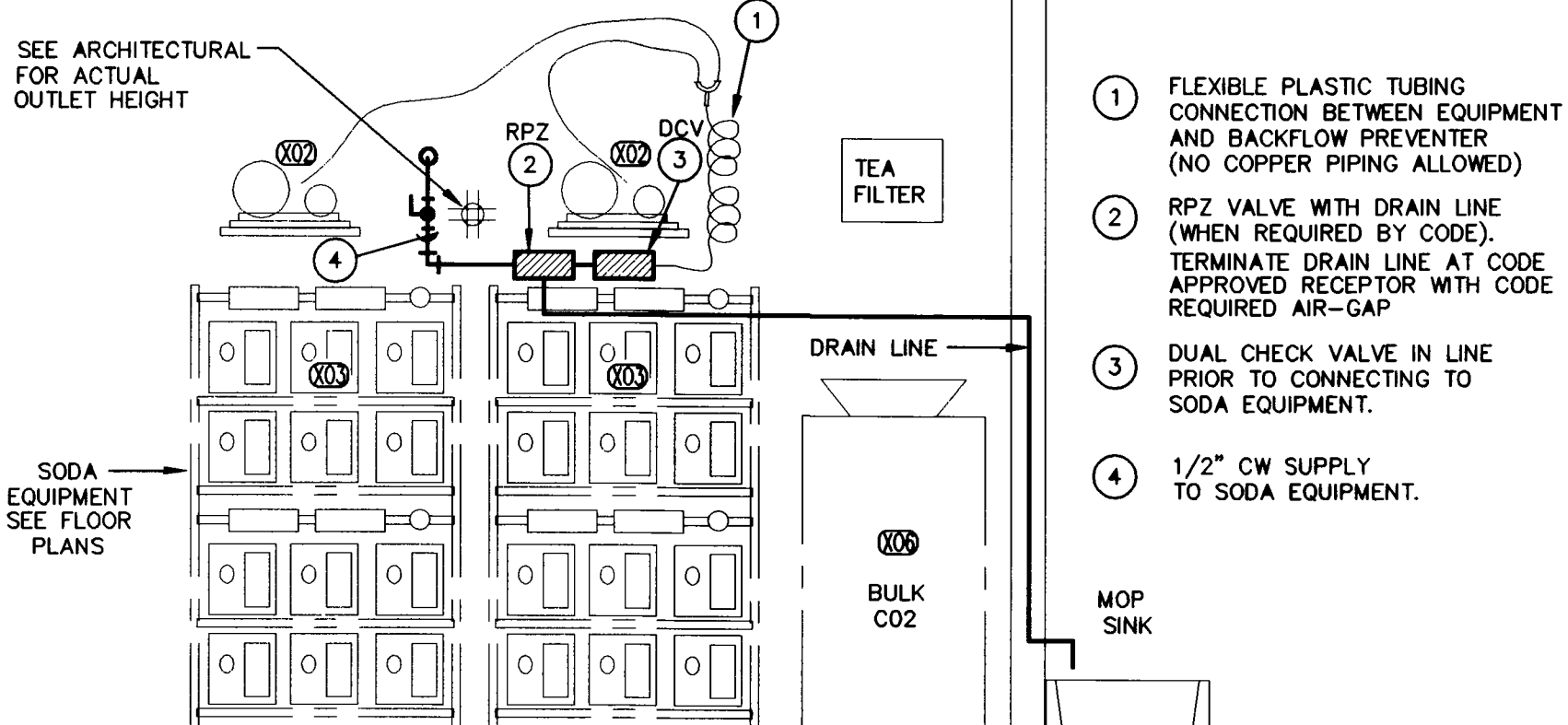
ITEM	DESCRIPTION	LOCATION	QTY	TRAP SIZE	SAN F.U.	TOTAL SAN F.U.	F.W. F.U.	C.W. F.U.	H.W. F.U.	H.W. TEMP.	SUPPLY SIZE	TOTAL WTR F.U.	COMMENTS
WC-A	WATER CLOSET (HC)	TOILET ROOM	2	3"	6	12	-	10	-	-	1"	20	(HC) HEIGHT WATER CLOSET WITH FLUSHVALVE HANDLE INSTALLED ON ACCESSIBLE SIDE OF STALL
WC-B	WATER CLOSET	TOILET ROOM	3	3"	6	18	-	10	-	-	1"	30	STANDARD HEIGHT WATER CLOSET
UR	URINAL	TOILET ROOM	2	2"	2	4	-	5	-	-	3/4"	10	INSTALL AT (HC) HEIGHT WITH F.V. HANDLE ON ACCESSIBLE SIDE
LAV	LAVATORIES	TOILET ROOM	4	1.25"	1	4	-	1	1	TEMPERED 110° F.	1/2"	8	COVER DRAIN AND WATER PIPING WITH TRU-BRO LAV GUARD
FD-A	FLOOR DRAIN	TOILET ROOM	2	3"	5	10	-	-	-	-	-	-	PROVIDE TRAP PRIMER, SEE DETAIL
FD-A	FLOOR DRAIN	GW & COMP. ROOM	1	3"	5	5	-	-	-	-	-	-	PROVIDE TRAP PRIMER, SEE DETAIL
TOTAL SANITARY WASTE FU's					SUBTOTAL		53	SUBTOTAL DOM. WATER FU's				68	

FIXTURE UNIT COUNT (KITCHEN WASTE)

K45/FS	ICE-MACHINE	BEVERAGE	1	3" FS	5	5	1	-	-	-	1/2"	1	FULL SIZE DRAIN INDIRECT TO F.S. UNDER BEVERAGE COUNTER ITEM #MS. WATER SUPPLY AT 73 3/4" A.F.F. WATER SUPPLY THRU FILTER, SEE KITCHEN EQUIPMENT MANUAL	
K49	ICE MACHINE WATER FILTER	BEVERAGE	1	-	-	SHARE W/K45	-	1	-	-	3/4"	SUPPLY TO ITEM 45 & K6	PROVIDE BACKFLOW PREVENTION AT WATER FILTER SUPPLY CONNECTION. SEE BACKFLOW PREVENTER SCHEDULE	
FD-B	FLOOR DRAIN	BEVERAGE	1	3" FD	5	5	-	-	-	-	-	-		
K48/FS	DISHMACHINE	DISHWASH	1	4" FS	6	6	-	-	4	140° F	3/4"	4	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 61 3/4" A.F.F. SEE KITCHEN EQUIPMENT MANUAL	
K46/FS	3-COMP SINK	DISHWASH	1	-	-	SHARE W/K48	-	4	4	140° F	1/2"	8	2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. (2 FAUCETS) SEE KITCHEN EQUIPMENT MANUAL	
K46.1/FS	PRE-RINSE	DISHWASH	1	-	-	SHARE W/K48	-	2	2	140° F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A F F SEE KITCHEN EQUIPMENT MANUAL	
-	-	-	-	-	-	-	-	-	-	-	-	-		
FD-B	FLOOR DRAIN	DISHWASH	1	3" FD	5	5	-	-	-	-	-	-		
K83/FS	SALAD BAR	KITCHEN	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FROM COLD PANS	
K31	PREP SINK	KITCHEN	1	4" FS	6	6	-	2	2	140° F	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 18" A F F SEE KITCHEN EQUIPMENT MANUAL	
-	-	-	-	-	-	-	-	-	-	-	-	-		
K63	HAND SINK	KITCHEN	2	1.25"	1	2	-	1	1	110° F.	1/2"	4	DIRECT CONNECT DRAIN, WATER AT 18" A.F.F., SEE KITCHEN EQUIPMENT MANUAL	
X03	BAG-IN-BOX	CORRIDOR	1	-	-	-	-	1	-	-	1/2"	1	WATER SUPPLY AT 78" A.F.F. PROVIDE RPZ VALVE WITH INDIRECT AT MOP SINK.	
FD-B	FLOOR DRAIN	CORRIDOR	1	3" FD	5	5	-	-	-	-	-	-		
MS (K62)	MOP SINK	CORRIDOR	1	3"	5	5	-	2	2	140° F	3/4"	4	PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON SUPPLIES ABOVE CEILING INSTALL FAUCET AT 42" A.F.F	
X24	ECOLAB	MOP SINK	1	-	-	-	-	2	-	-	1/2"	2	COLD WATER SUPPLY ONLY - PROVIDE RPZ VALVE PRIOR TO CONNECTING TO ECOLAB EQUIPMENT	
FS-A	FLOOR SINK	WALK IN COOLER BEER TAPS	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FROM COOLER AND OTHER EQUIPMENT.	
M5/FS	BEVERAGE COUNTER	BEVERAGE	1	3" FS	5	5	-	-	-	-	-	-	NOTE: DRAIN BEVERAGE DISPENSING EQUIPMENT AND ADJACENT ICE MACHINE ICE BIN AT FLOOR SINK. PROVIDE CODE REQUIRED AIR-GAP FOR INDIRECT WASTE.	
FD-B	FLOOR DRAIN	KITCHEN	1	3" FD	5	5	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL GREASE WASTE FU's					SUBTOTAL		59	SUBTOTAL DOM. WATER FU's					32	
SAN - TOTAL: 53 FU's = 52 GPM FLOW														
GW - TOTAL: 59 FU's = 32 GPM FLOW														
TOTAL COMBINED SANITARY WASTE FU's							112	TOTAL DOM. WATER FU's					100	
DOM. WTR		100 TOTAL FU's = 67 GPM = 2" DOMESTIC WATER SERVICE, 1 1/2" WATER METER, 2" DCV BFP												
SAN. WASTE		112 TOTAL FU's = 70 GPM = 4" WASTE PIPING @ 1/4" PER FOOT SLOPE												



01 GAS WATER HEATER
SCALE: NONE



02 SODA SYSTEM B.F.P.
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER AND MODEL
LAV	LAVATORY WHITE VITREOUS CHINA 21" X 22" WALL HUNG WITH KNEE SHROUD AND SINGLE HANDLE FAUCET WITH GRID DRAIN (NO TRU-UP) SHROUD, MOD # 0059.020	AMERICAN STANDARD "MURRO" 0954.000.020 FAUCET: AMERICAN STANDARD 1480.115 TRAP: MCGUIRE 8872 (LAV-GUARD) DRAIN (GRID): MCGUIRE 155-WC (LAV-GUARD) SUPPLIES: MCGUIRE 167 (LAV-GUARD) CARRIER, ZURN SERIES Z-1231
WC-A	WATER CLOSET WHITE VITREOUS CHINA ELONGATED SIPHON JET FLOOR MOUNTED 17" HIGH FOR HANDICAP	AMERICAN STANDARD "MADERRA" 3043.102.020 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
WC-B	WATER CLOSET WHITE VITREOUS CHINA SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD "MADERA AQUAMETER" 2234.015 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
UR	URINAL-ADA WHITE VITREOUS CHINA WASHOUT WALL HUNG	AMERICAN STANDARD "ALLBROOK" 6541.132.020 FLUSH VALVE: SLOAN 186-1 CARRIER: JOSAM 17810 SERIES
MS	MOP SINK TERRAZZO 24" 24" FLOOR MOUNTED WITH HOSE & BRACKET, MOP HANGER AND VINYL BUMPERGUARD	FIAT. MOD # TSB-200 FAUCET: FIAT 830-AA; HOSE & BRACKET: 832-AA MOP HANGER: FIAT 889-CC; STRAINER: 1453-BB BUMPERGUARD: FIAT E-77-AA
FD-A	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN: "JONESPEC" MOD. # FD-2280-PV PROVIDE P-TRAP WITH TRAP PRIMER CONNECTION CHECK CONNECTION SIZE WHEN ORDERING
FD-B	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN: "JONESPEC" MOD. # FD-2280-PV CHECK CONNECTION SIZE WHEN ORDERING
FS	FLOOR SINK W/FULL GRATE AND REMOVABLE PLASTIC SECONDARY STRAINER	DRAIN: "JONESPEC" MOD. # FD-2370 -PV CHECK CONNECTION SIZE WHEN ORDERING
GW	WATER HEATER LOW NOX COMMERCIAL TANK TYPE WATER DELIVERY TEMP - SET 140° WTR WITH ELECTRONIC CONTROLS AND DIRECT VENT.	A.O. SMITH: BTH-199 GAS: 199 CPH, 3" FLUE CAP: 100 GAL. RECOVERY = 227 GPH @ 100° RISE EXPANSION TANK: AMTROL MODEL # ST-12
MV-1	ABOVE CEILING AT HAND SINKS FREEZEPROOF WALL HYDRANT	WATTS MODEL # USG-B-SC (SET AT 110°) SATIN CHROME FINISH
FPWH	FREEZEPROOF WALL HYDRANT	WOODFORD SERIES B65 LOOSE KEY
FCO	FLOOR CLEANOUT HEAVY DUTY BOLTED CLEANOUT	CLEANOUT: "JONESPEC" MOD. # CO-2450-PV4 W/SCORRIATED BRASS COVER
CO	CLEANOUT (EXTERIOR)	CLEANOUT: "JONESPEC" MOD. # CO-2450-PV4 W/SCORRIATED BRASS COVER
WCO	STAINLESS STEEL WALL CLEANOUT ACCESS COVER W/SCREW	COVER: "PROFLO" MOD. # PFC5IU 6"

- NOTES:
1. FIXTURE MANUFACTURER SHALL BE EQUAL TO THOSE LISTED.
 2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR A SOLID, SECURE INSTALLATION.
 3. PROVIDE ALL DRAIN COVERS, ESCUTCHEONS, AND MISCELLANEOUS TRIM ITEMS FOR A NEAT APPEARANCE.
 4. ALL MOUNTED HEIGHTS ARCHITECTURAL PLANS SHALL BE VERIFIED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL PLANS.
 5. ALL SUPPLIES SHALL BE CHROME PLATED.
 6. COVER ALL DRAINS AND WATER PIPING UNDER SINKS, LAVATORIES AND COUNTERS DESIGNATED FOR USE BY THE HANDICAP WITH MOLDED CLOSED CELL VINYL EQUAL TO TRUBRO LAV-GUARD.

BACKFLOW PREVENTER SCHEDULE

PROVIDE RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER WATTS SERIES # 0090T-SS STAINLESS STEEL WITH ASSE 1013 LISTING, AND DUAL CHECK VALVE CHUDNOW SERIES # 914 (OR EQUAL) WITH ASSE 1032 LISTING. VALVE MUST BE STAINLESS STEEL AT SODA EQUIPMENT WATER SUPPLY CONNECTIONS. PROVIDE FLEXIBLE PLASTIC SUPPLY LINE AT FINAL CONNECTION TO EQUIPMENT (COPPER PIPING NOT ALLOWED).

DESCRIPTION	TAG	VALVE MODEL
SODA EQUIPMENT	DCV	# 914
SODA EQUIPMENT	RPZ	# 0090T-SS
SODA EQUIPMENT	DCV	# 914

PROVIDE BACKFLOW PREVENTER WATTS MODEL # 98D SERIES (OR EQUAL). INSTALL AT EQUIPMENT CONNECTIONS FOR THE ITEMS LISTED BELOW.

DESCRIPTION	TAG	VALVE MODEL
ICE MACHINE	DCV	# 98D
COFFEE	DCV	# 98D

1. PROVIDE APPROVED BACKFLOW PREVENTER ON WATER SUPPLY TO CHEMICAL SANITIZER ON DISH MACHINE, OR WATER SUPPLY TO DISH MACHINE WITH CHEMICAL SANITIZER EQUIPMENT, VERIFY WITH CODE.

2. VERIFY MAIN WATER SUPPLY BACKFLOW PREVENTION REQUIREMENTS WITH LOCAL CODE AT START OF CONSTRUCTION.

DESCRIPTION	TAG	VALVE MODEL
DISH MACHINE	RPZ	# 0090T
MAIN WATER SUPPLY	DCV	# 007-QT

NOTE: ALWAYS VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION

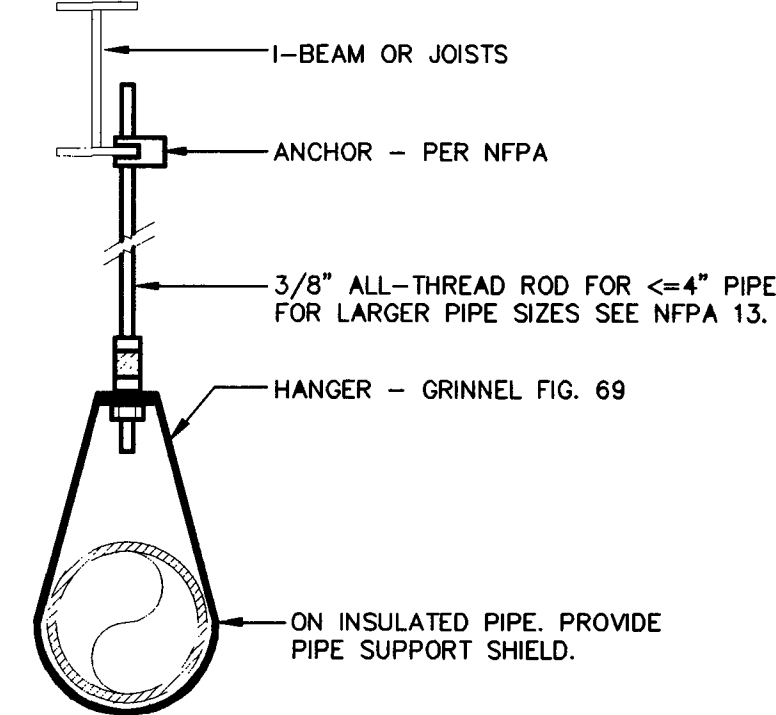
PLUMBING SYMBOL LEGEND

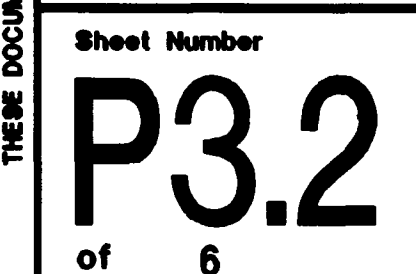
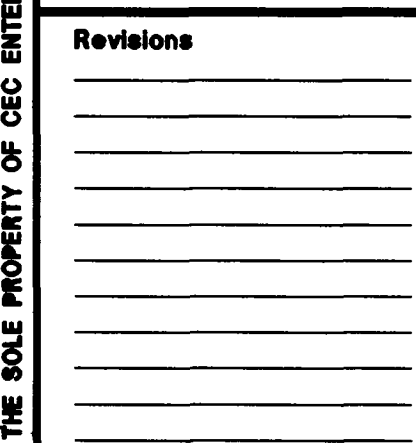
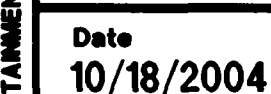
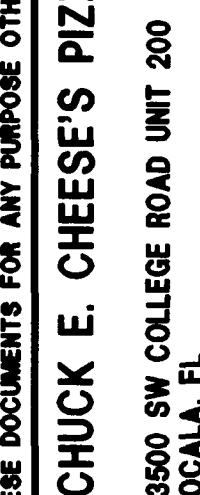
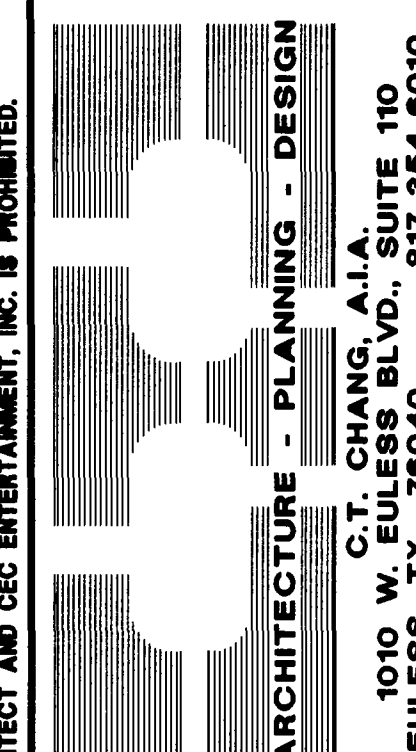
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—+—	BALL VALVE	—W—	GAS DROP TO EQUIPMENT
—W—	BUTTERFLY VALVE	—W—	WATER SERVICE LINE
—+—	BALANCING VALVE	—+—	DOMESTIC COLD WATER
—+—	CHECK VALVE	—+—	DOMESTIC HOT WATER
—+—	GATE VALVE	—+—	DOMESTIC HOT WATER RETURN
—+—	GAS PLUG COCK	—+—	SANITARY SEWER VENT
—+—	WATER METER	—+—	SANITARY WASTE LINE
—+—	WALL CLEANOUT	—+—	INDIRECT DRAIN
—+—	FLOOR CLEANOUT	—+—	STORM DRAIN
—+—	FLOOR SWITCH	—+—	FIRE PROTECTION
—+—	FLOOR SINK	—+—	NATURAL GAS LINE
—+—	FLOOR DRAIN	—+—	FLANGE
—+—	FLOOR DRAIN W/FUNNEL	—+—	UNION
—+—	ROOF DRAIN	—+—	BRANCH - TOP CONNECTION
—+—	HUB DRAIN	—+—	BRANCH - BOTTOM CONNECTION
—+—	WALL HYDRANT OR HOSE BIBB	—+—	PIPE RISER
—+—	WATER HAMMER ARRESTOR WITH SIZE	—+—	PIPE DROP
—+—	VACUUM BREAKER	—+—	DRAIN LINE
—+—	BACKFLOW PREVENTER	—+—	DIRECTION OF PIPE PITCH
—+—	POINT OF CONNECTION - NEW TO EXISTING	—+—	DIRECTION OF FLOW
—+—	THERMOMETER	—+—	FILTERED WATER
—+—	GAS PRESSURE REGULATOR		

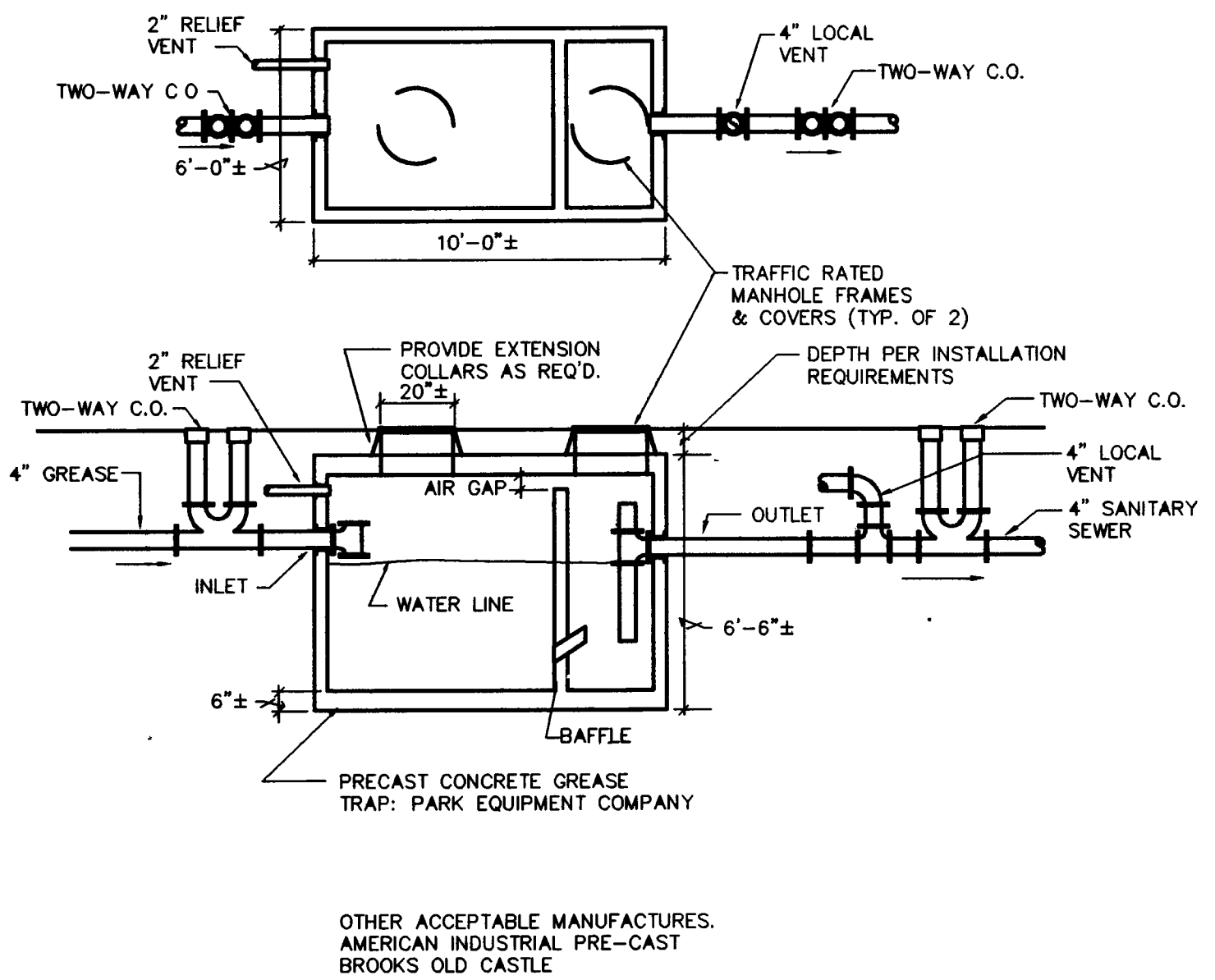
NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

GENERAL PLUMBING NOTES

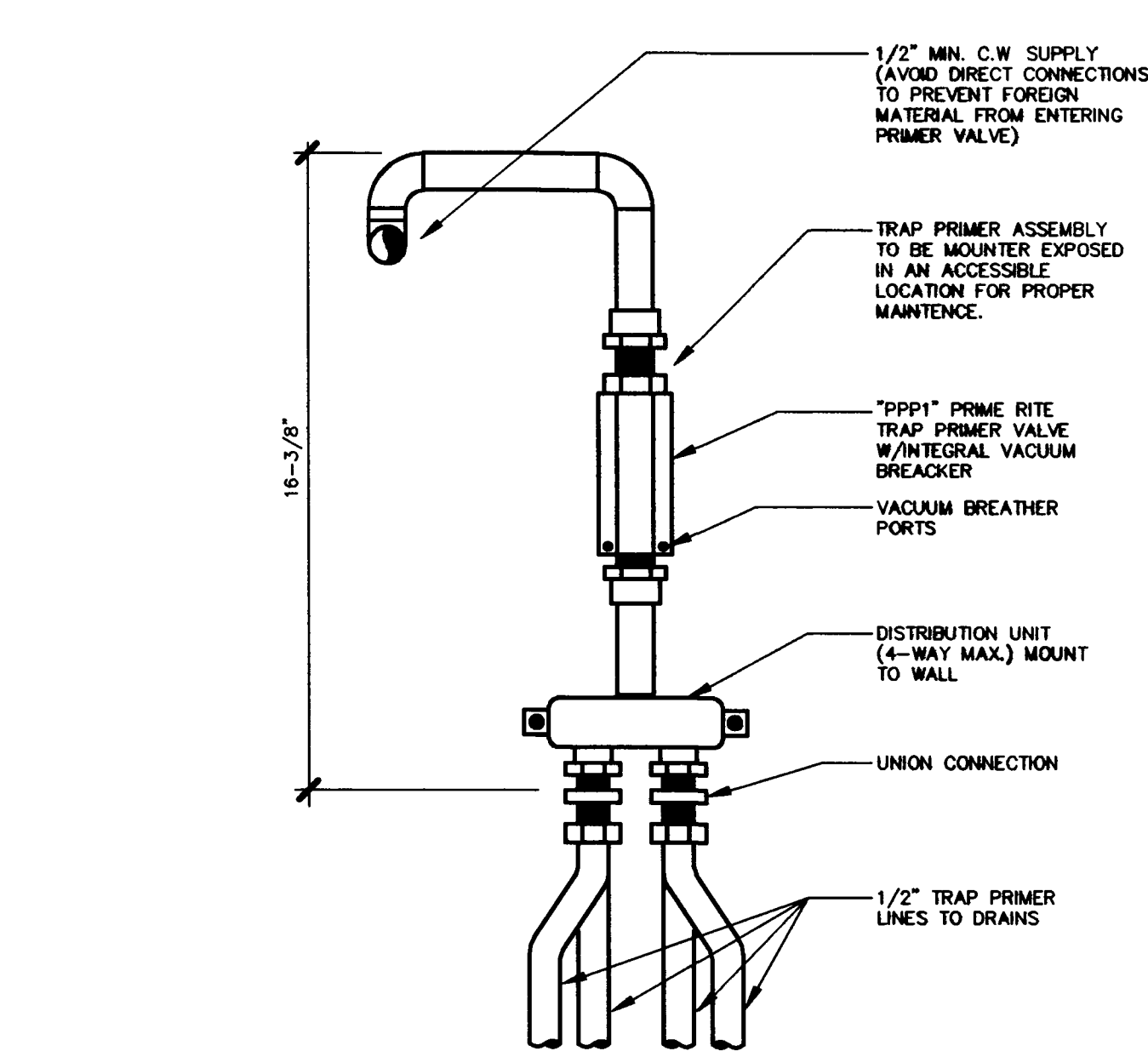
1. VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
2. OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS. PROVIDE WALL BACKING FOR ALL WALL MOUNTED PLUMBING FIXTURES AND ACCESSORIES.
3. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS, FEES, CHARGES AND METERS.
4. TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MIN FROM ANY FRESH AIR INTAKES.
5. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
6. PROVIDE FAUCETS UNLESS OTHERWISE NOTED, TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM
7. RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
9. UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW
10. TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH AIR GAP AIR GAP MUST BE TWICE THE SIZE OF THE INDIRECT DRAIN LINE DIAMETER AND NO LESS THAN 1". PROVIDE AND INSTALL COPPER DWV PIPING "NO PVC PIPING ALLOWED"
11. PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.
12. VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.
13. PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.



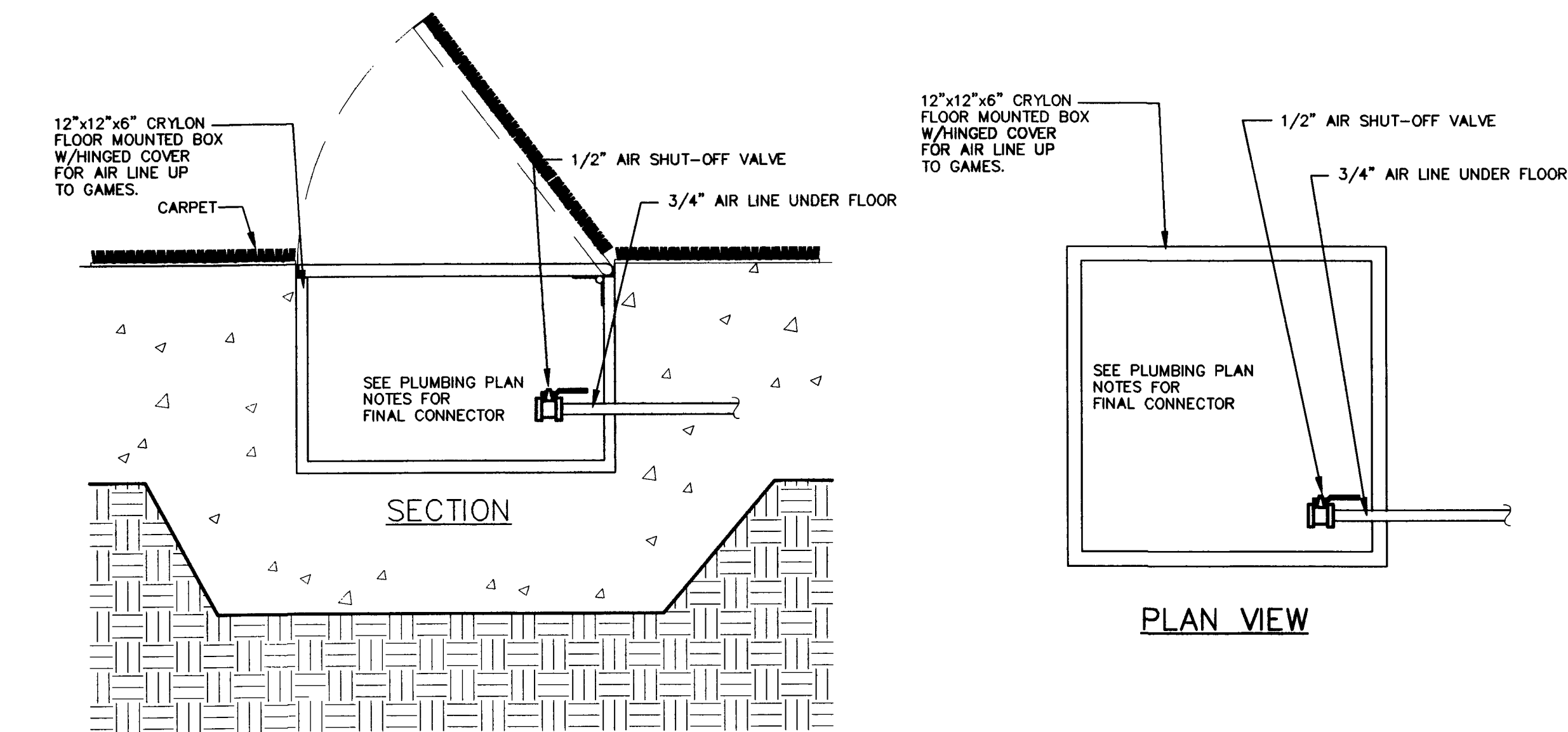




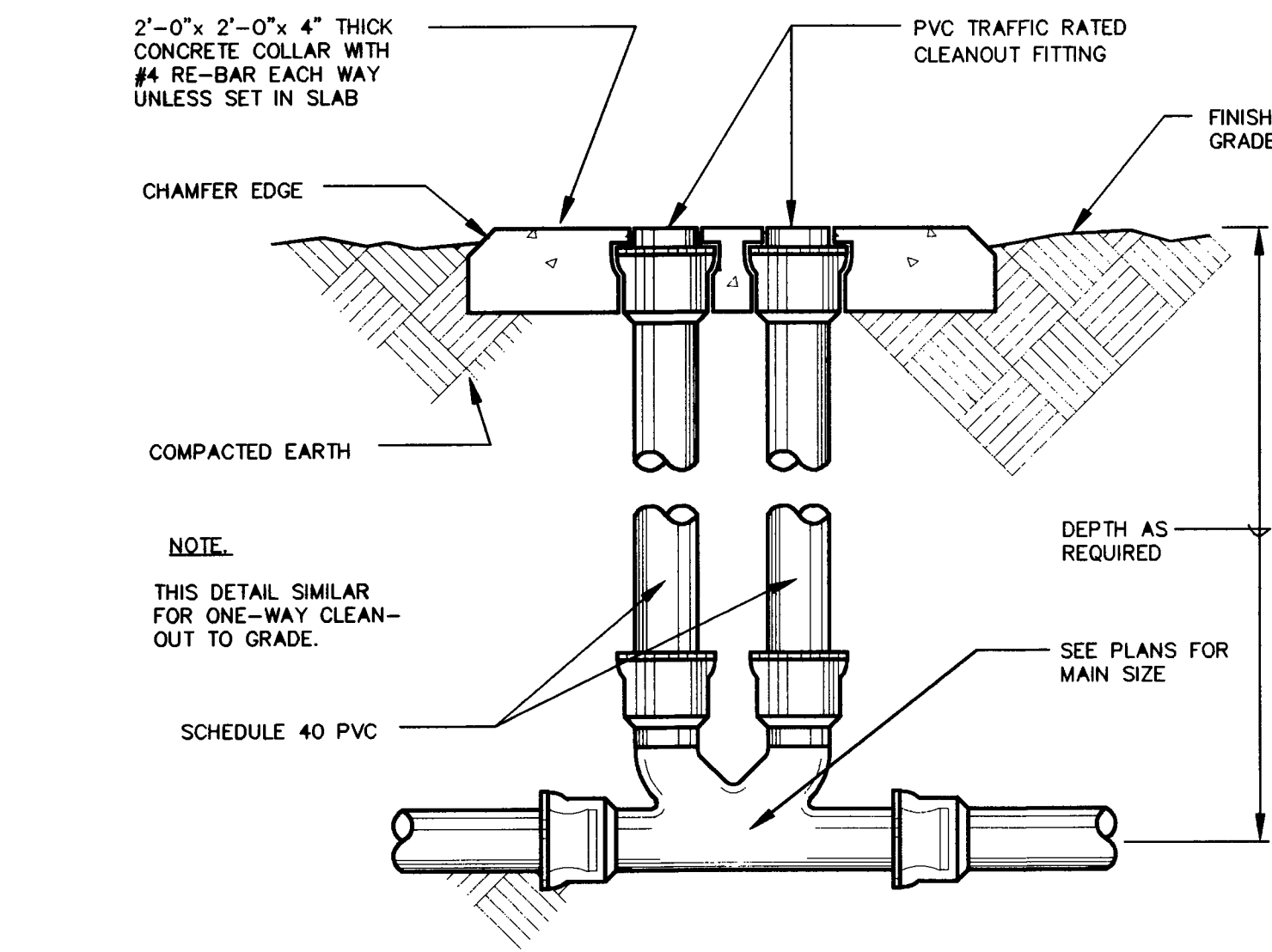
01 GREASE INTERCEPTOR DETAIL
SCALE: NONE



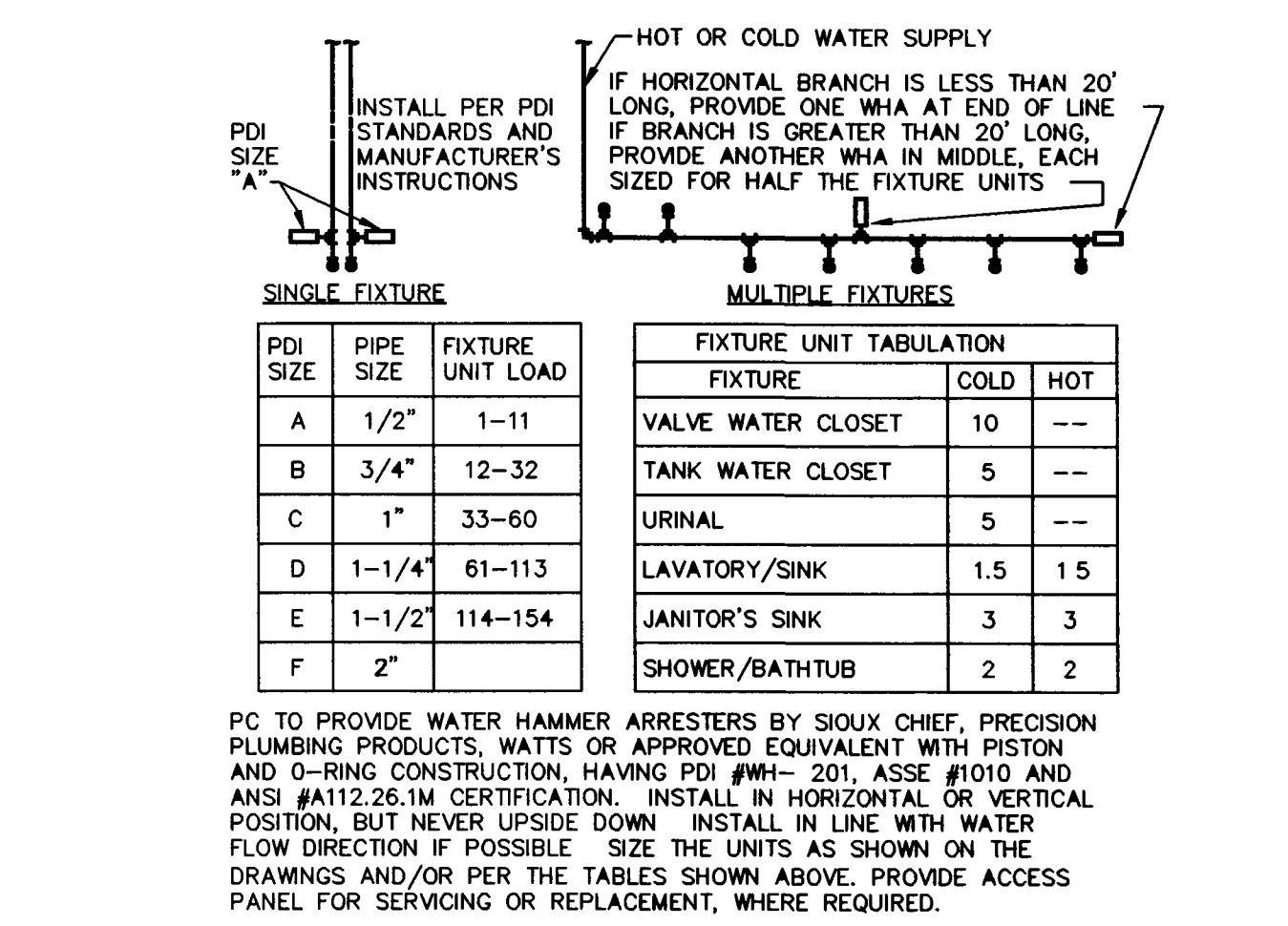
02 TRAP PRIMER 'TP-1' DETAIL
SCALE: NONE



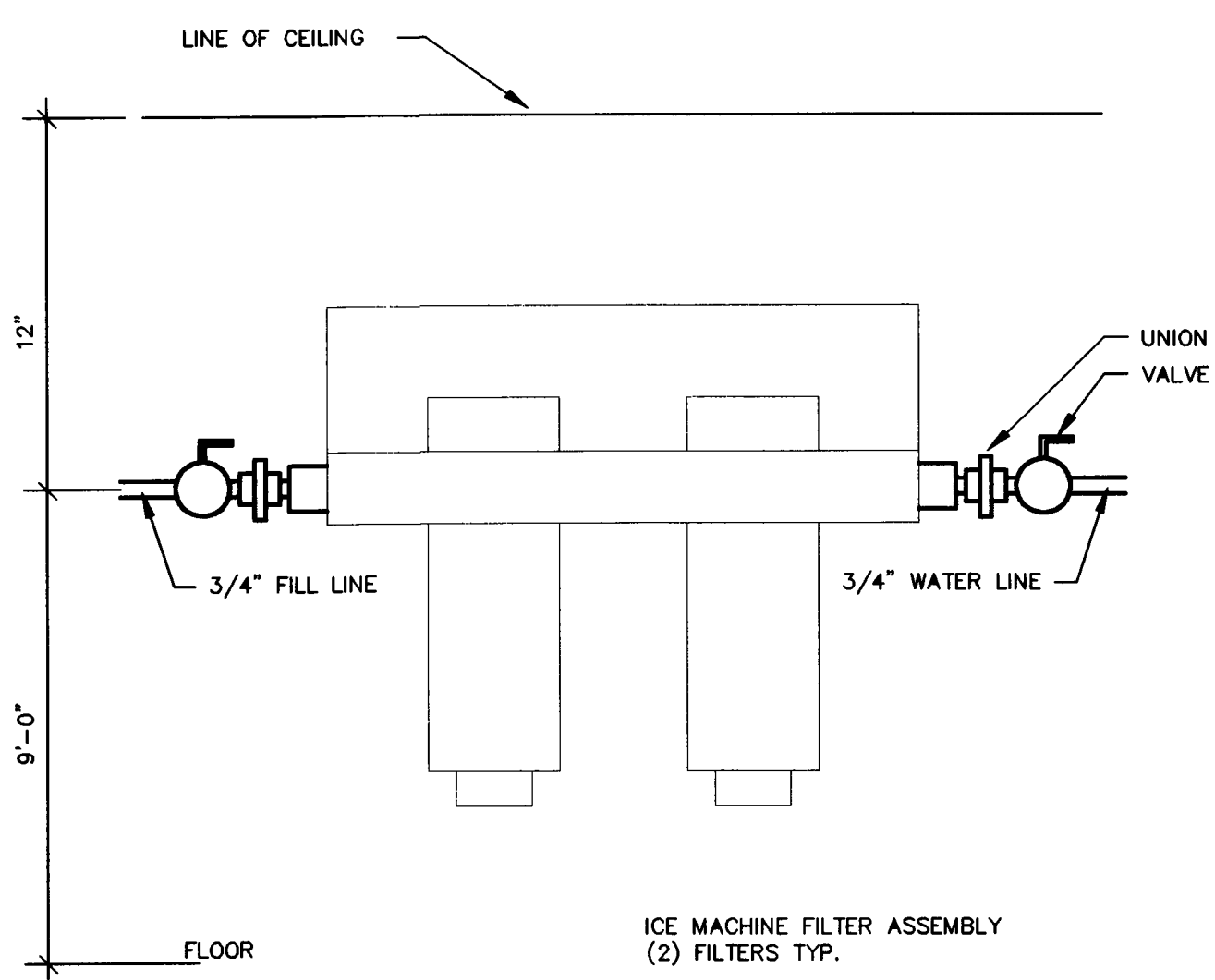
03 FLOOR BOX CONNECTION
SCALE: NONE



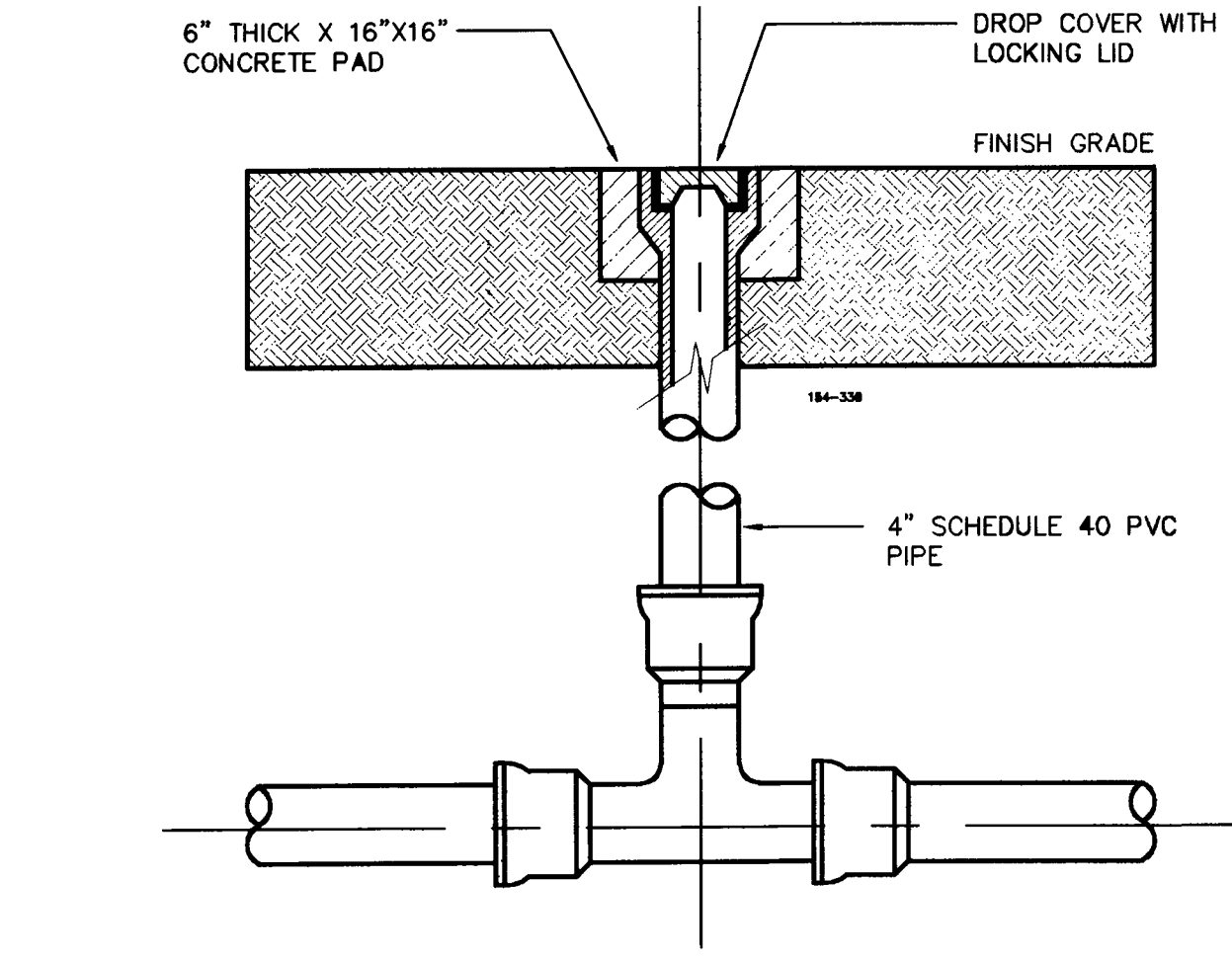
04 TWO-WAY CLEANOUT DETAIL
SCALE: NONE



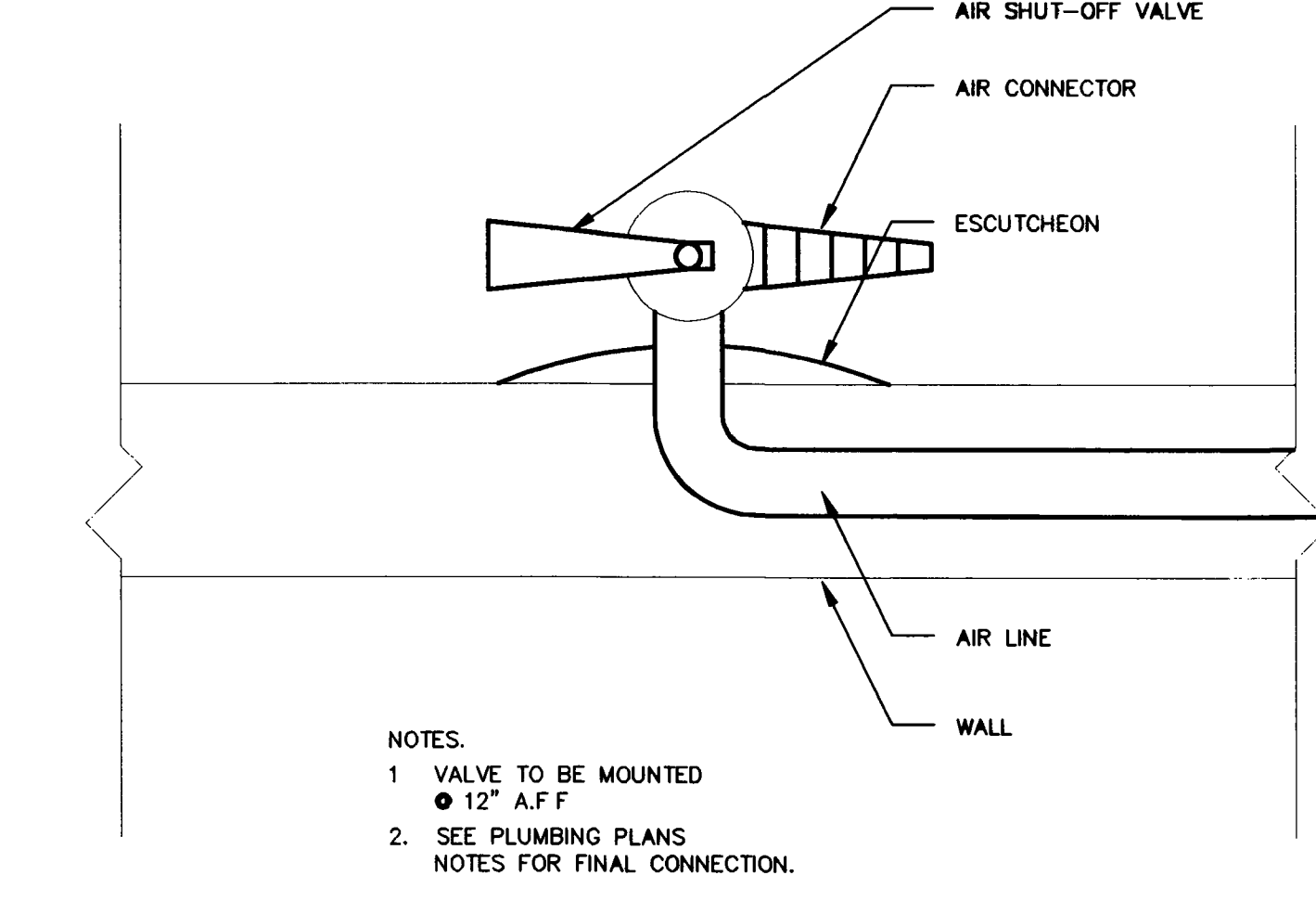
05 HAMMER ARRESTER DETAIL
SCALE: NONE



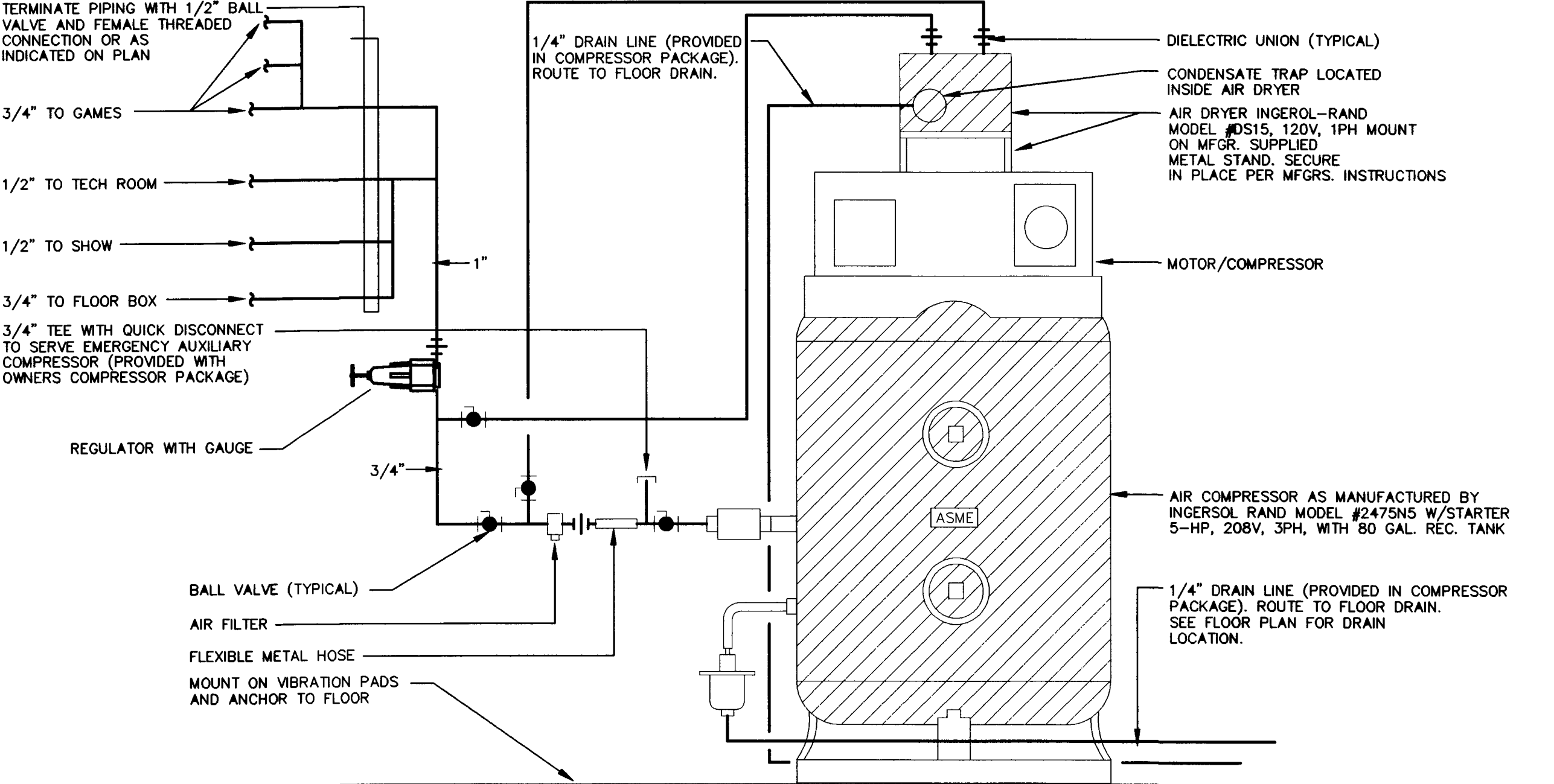
06 ICE MACHINE FILTER ASSEMBLY
SCALE: NONE



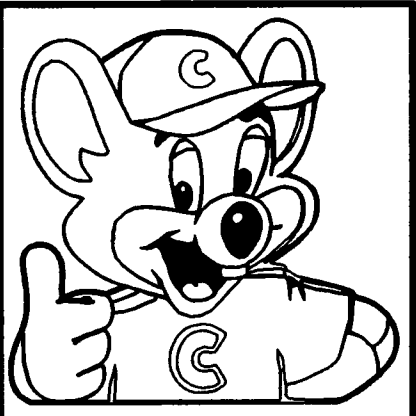
07 TEST WELL DETAIL
SCALE: NONE



08 AIR CONNECTION DETAIL
SCALE: NONE



09 AIR COMPRESSOR PIPING DETAIL
SCALE: NONE



CHUCK E. CHEESE'S PIZZA
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL 34701
C. E. C. ENTERTAINMENT, INC.
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IRVING, TEXAS 75062

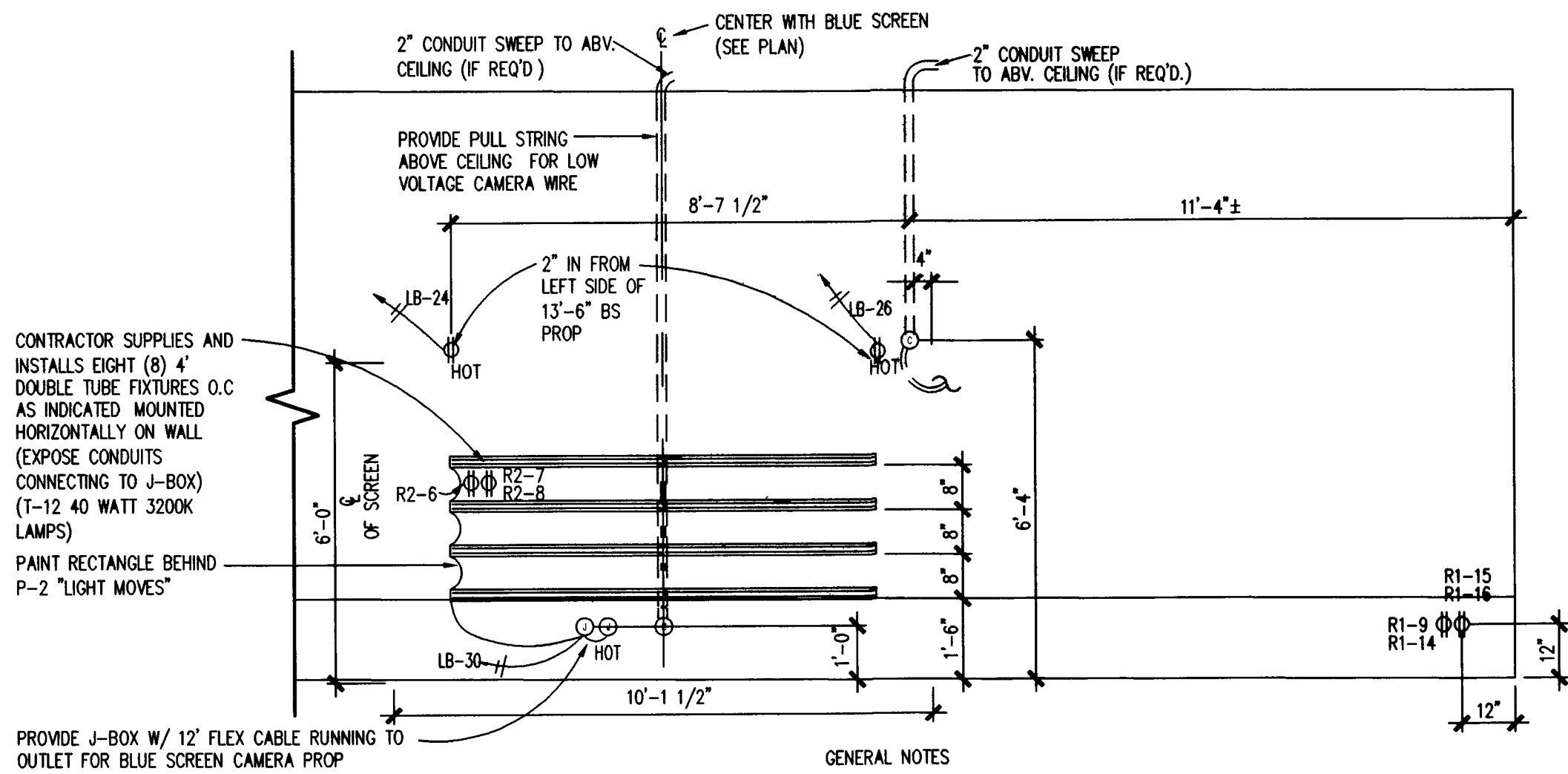
PERMIT SET
780
OCALA, FL
PLUMBING DETAILS

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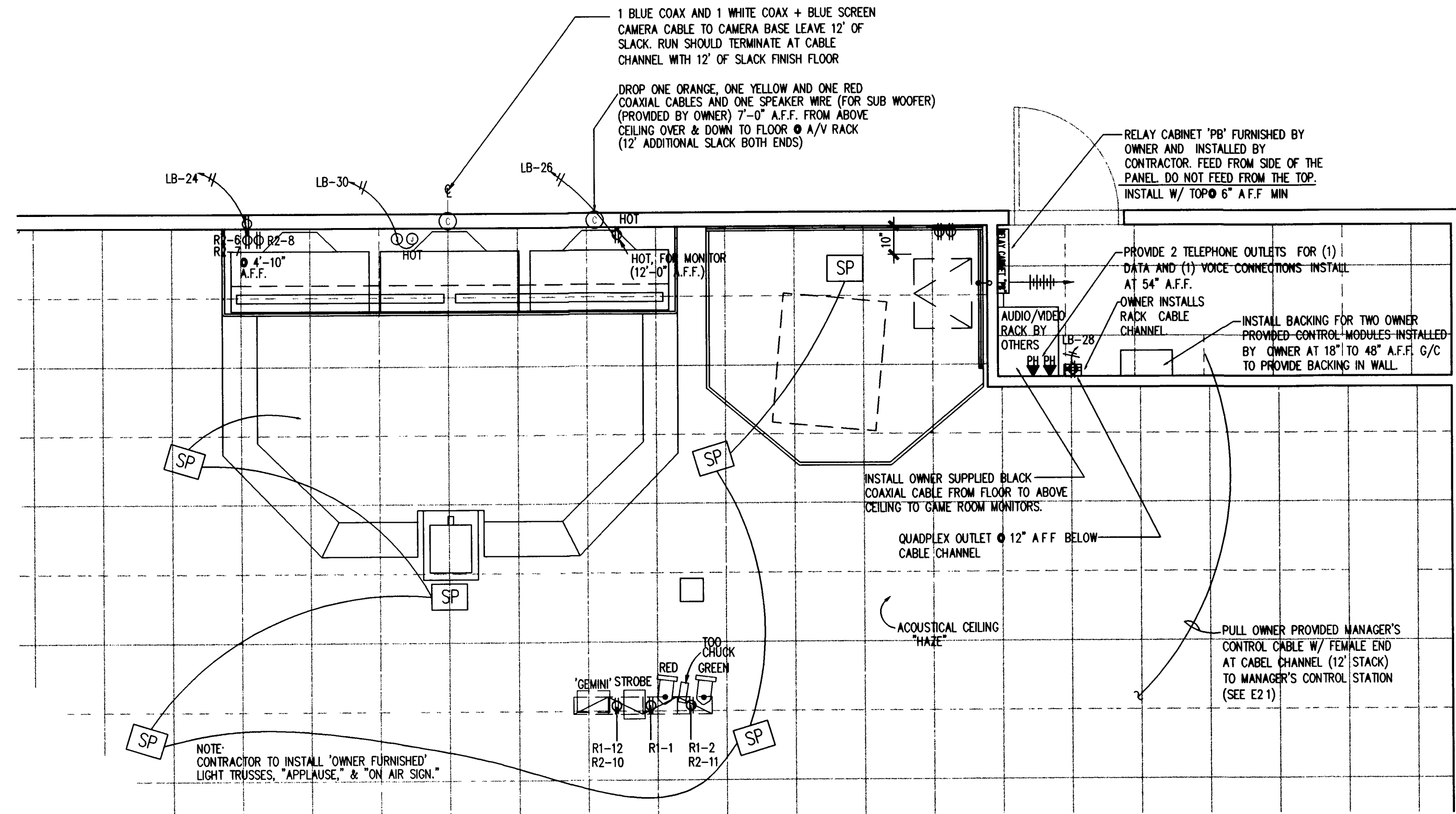
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10/18/2004
Revisions
Project Number
S8-780
Sheet Number
P3.3
of 6

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E22-OCALA-WBLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"



01 REAR WALL ELEVATION
SCALE: 3/8"=1'-0"



02 STUDIO 'C' LIGHTING AND ELECTRICAL PLAN
SCALE: 3/8"=1'-0"

WIRING SCHEDULE

PB-1

CIRCUIT LB-32 (1/20) 20 AMP BREAKER

- R1-1 CEC RED FLOODS (1)
- R1-2 CEC GREEN FLOODS (1)
- R1-3 SPARE
- R1-4 SPARE
- R1-5 SPARE
- R1-6 SPARE
- R1-7 SPARE
- R1-8 SPARE

CIRCUIT LB-34 (1/20) 20 AMP BREAKER

- R1-9 SPARE
- R1-10 SPARE
- R1-11 SPARE
- R1-12 STROBE
- R1-13 SPARE
- R1-14 CHUCK'S BACKDROP 1
- R1-15 CHUCK'S BACKDROP 2
- R1-16 CHUCK'S BACKDROP 3

PB-2

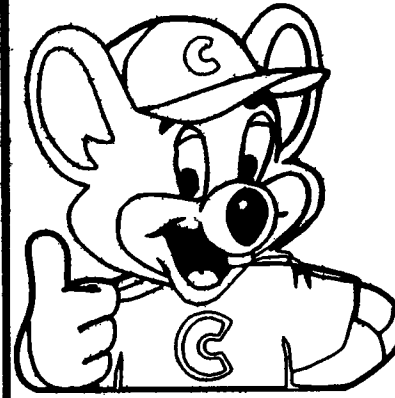
CIRCUIT LB-36 (1/20) 20 AMP BREAKER

- R2-1 SPARE
- R2-2 SPARE
- R2-3 SPARE
- R2-4 SPARE
- R2-5 SPARE
- R2-6 MONITOR ROPE LIGHT RED/YELLOW
- R2-7 MONITOR ROPE LIGHT BLUE
- R2-8 MONITOR ROPE LIGHT PURPLE/GREEN

CIRCUIT LB-38 (1/20) 20 AMP BREAKER

- R2-9 SPARE
- R2-10 GEMINI (1)
- R2-11 CEC SPOT
- R2-12 SPARE
- R2-13 SPARE
- R2-14 SPARE
- R2-15 SPARE
- R2-16 SPARE

- NOTES:
- RELAY CABINET "PB" SHALL BE FURNISHED BY OWNER, INSTALLED AND WIRED BY CONTRACTOR. LOW VOLTAGE CONNECTION BY OWNER.
 - CIRCUIT ROUTING IS DIAGRAMMATIC ONLY. EACH RECEPTACLE AND EACH HALF OF THE SPLIT RECEPTACLE SHALL HAVE TWO WIRES: HOT AND NEUTRAL BACK TO RELAY CABINET "PB".
 - ALL WIRING SHALL BE CAREFULLY MARKED AT EACH END.
 - USE #12 AWG CONDUCTORS IN 3/4" CONDUIT.
 - ALL NUMBERED OUTLETS ARE CONTROLLED BY RELAY CABINET "PB".



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ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

CHUCK E. CHEESE'S PIZZA
780
OCALA, FL

STUDIO 'C' LIGHTING AND ELECTRICAL POWER

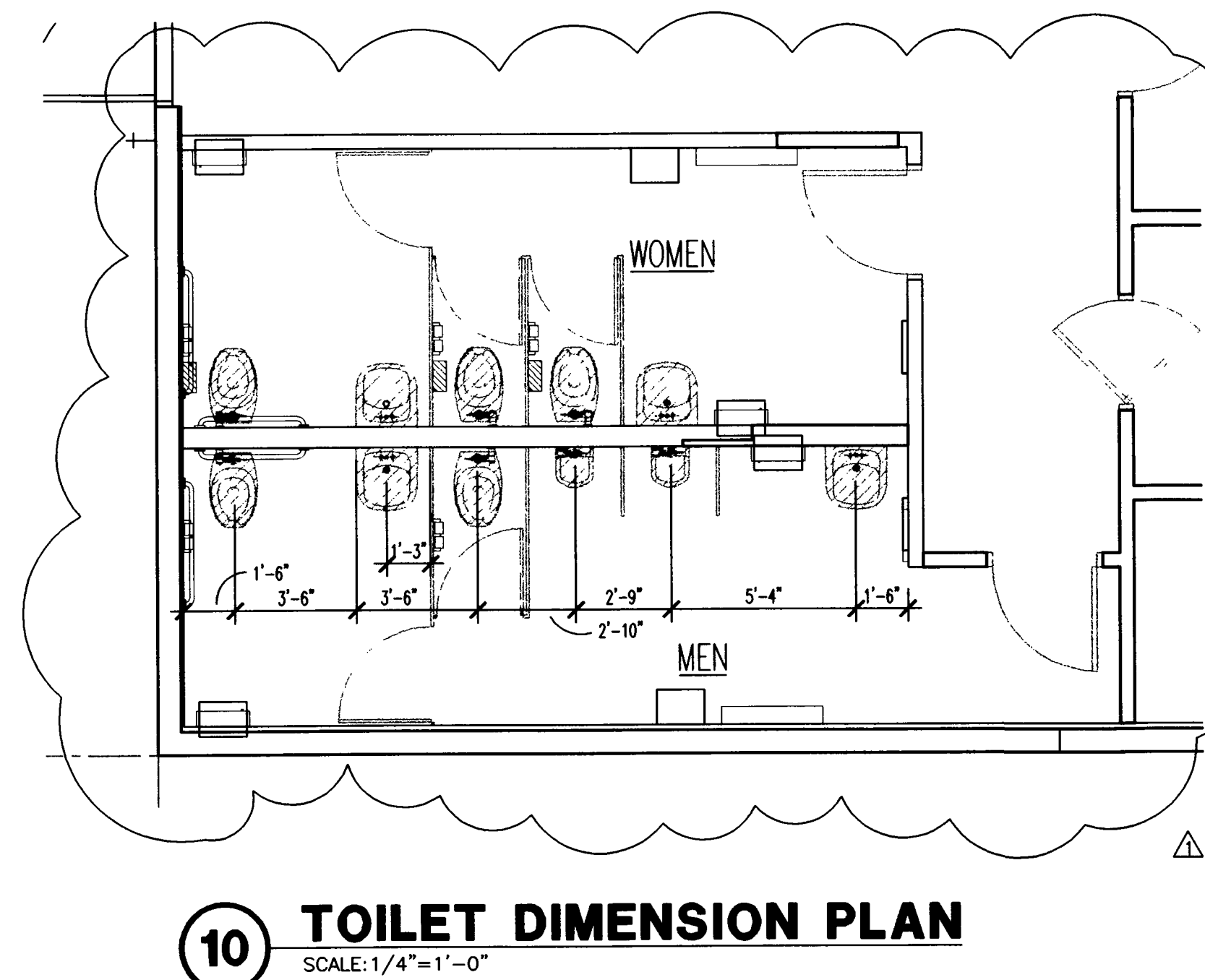
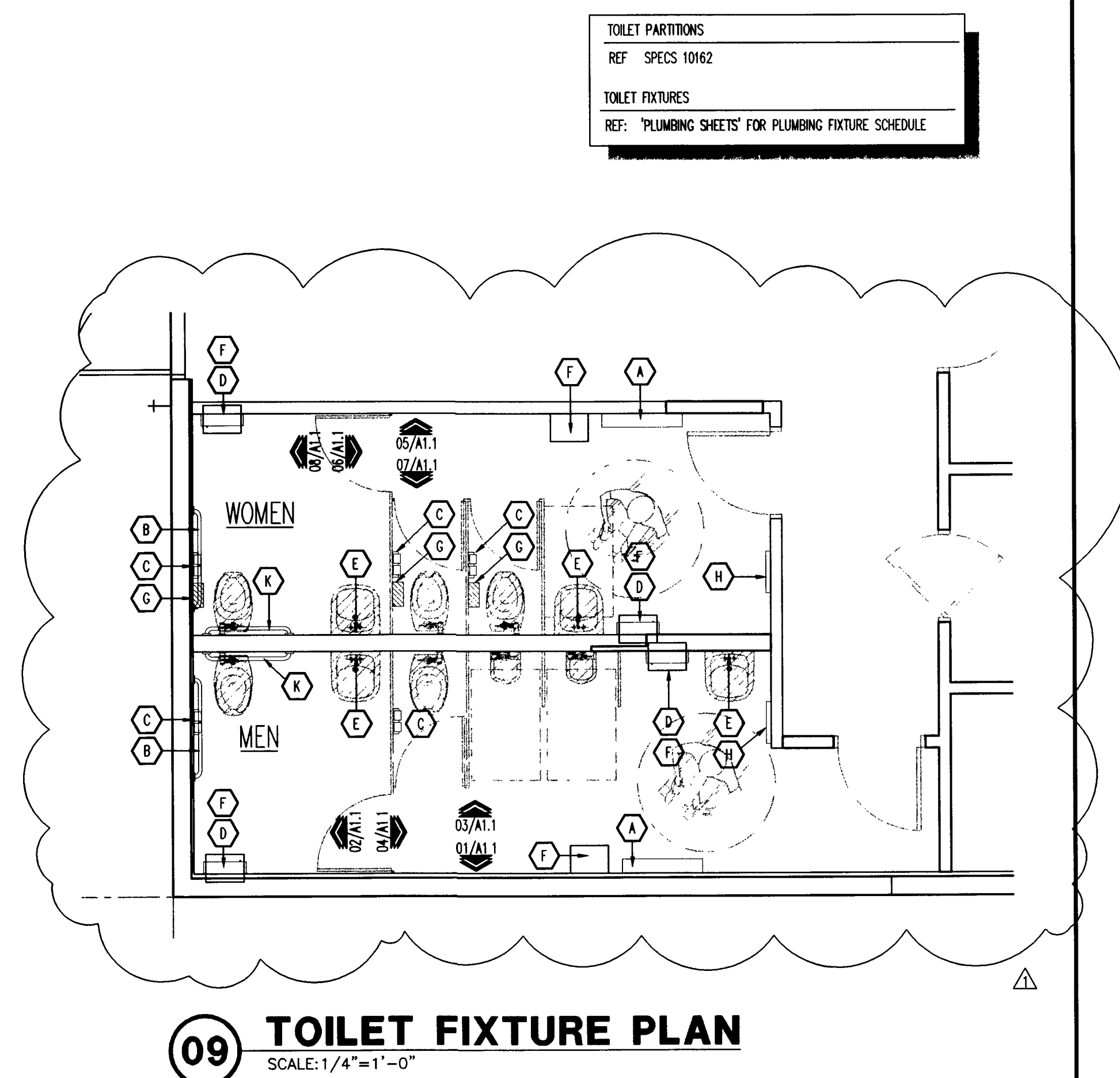
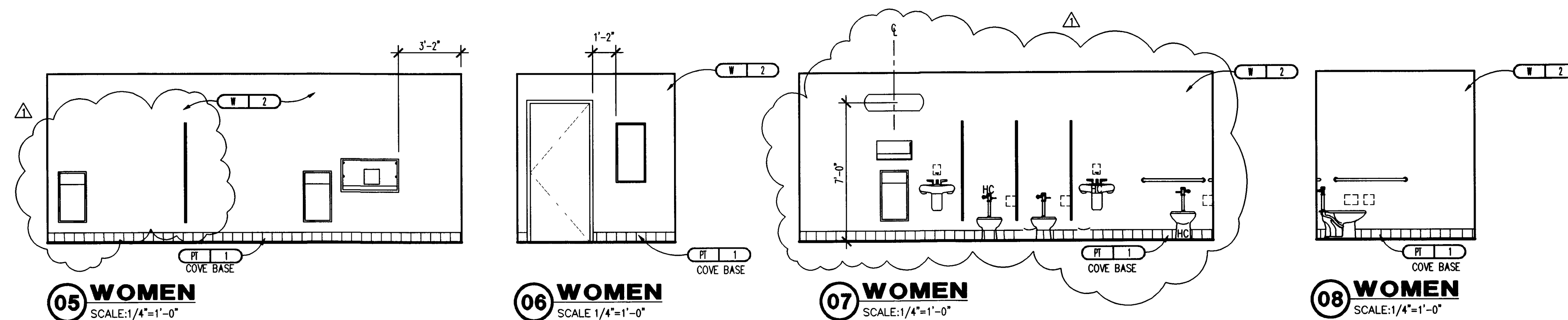
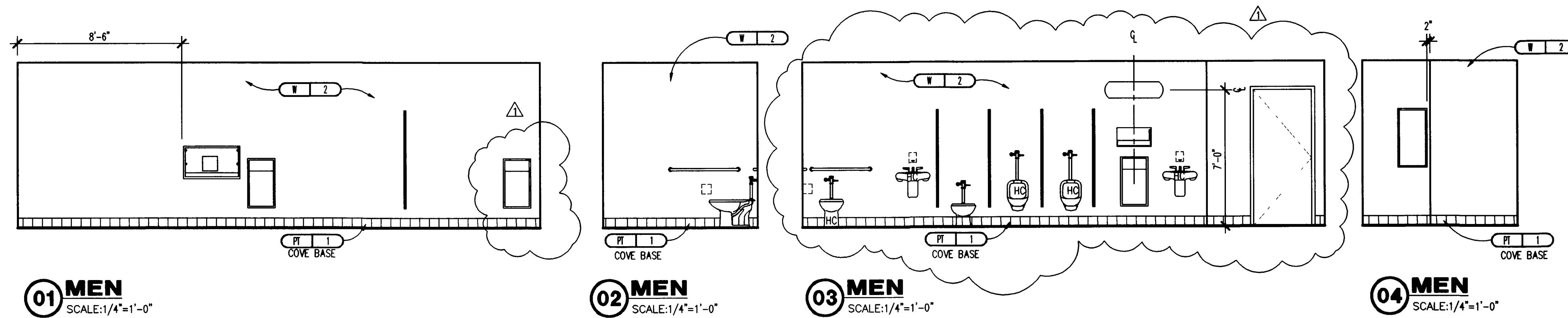
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RESTROOM ACCESSORIES

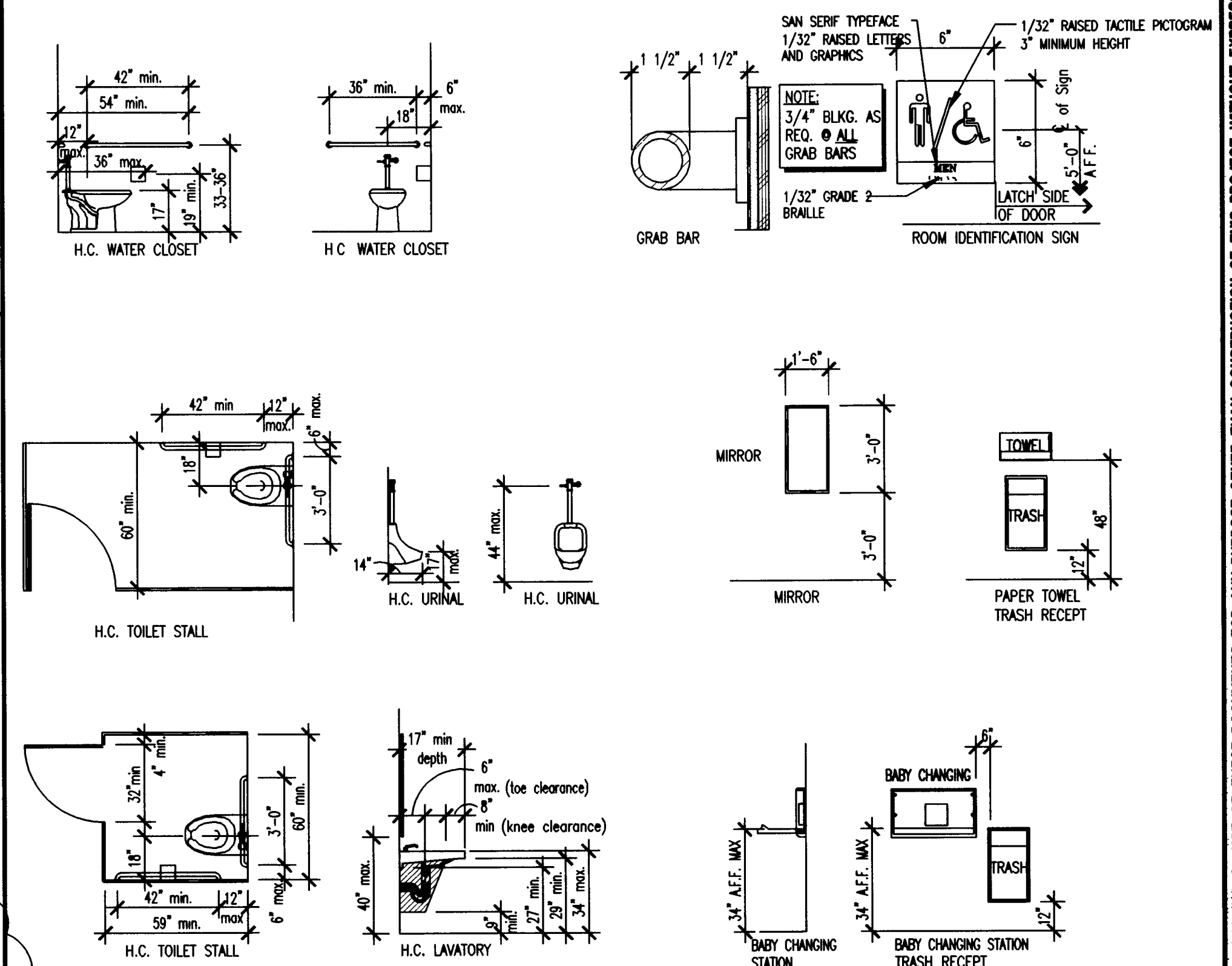
MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	BLOCKING REQUIRED	REMARKS
A	KOALA BEAR KARE	BIEGE HORIZONTAL BABY CHANGING TABLE	G.C	G.C	X	
B	BRADLEY #120-001420	42" HANDICAP GRAB BARS	G.C	G.C	X	
C	JAMES RIVER	TISSUE DISPENSER SINGLE STALL	OWNER	G.C		
D	JAMES RIVER	TOWEL DISPENSER	OWNER	G.C		
E	ECOLAB	SOAP DISPENSER	OWNER	G.C		MOUNT OVER SINK
F	BRADLEY #334	WASTE RECEPTACLE AT SINK	G.C.	G.C		SEMI-RECESSED
G	BRADLEY #4781-15	NAPKIN DISPOSAL BOXES	G.C	G.C		CONTRACTOR SHALL INSTALL ONE NAPKIN DISPOSAL BOX IN EACH STALL OF THE WOMEN'S RESTROOM
H	BRADLEY #781-1836	(18"x36") SS FRAMED MIRROR	G.C	G.C	X	
K	BRADLEY #120-00136	36" HANDICAP GRAB BARS	G.C	G.C.	X	

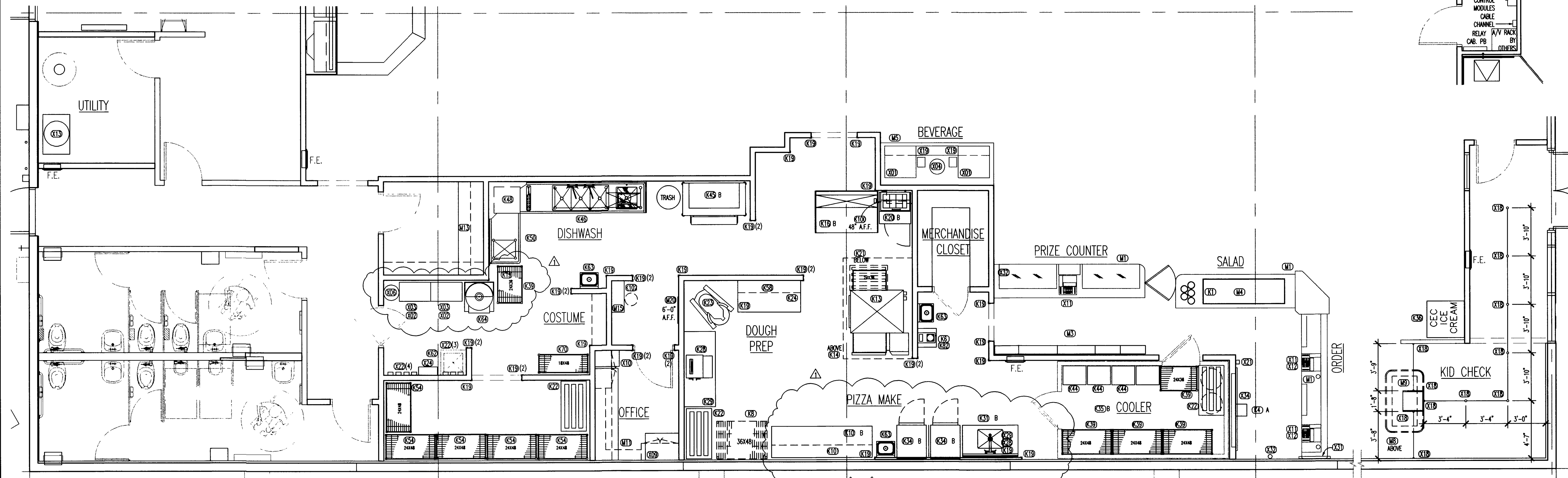
TOILET ROOM ACCESSIBILITY

NOTE:

TOILET ROOMS SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- A. WATER CLOSET SEAT HEIGHT: 17" TO 19" A.F.F.
B. CENTERLINE OF WATER CLOSET: 18" FROM SIDEWALL.
C. GRAB BAR BEHIND WATER CLOSET: 36" LONG, MOUNTED 33" TO 36" A.F.F.
D. GRAB BARS AT SIDE OF WATER CLOSET: 42" LONG MOUNTED 33" TO 36" A.F.F.
E. GRAB BAR DIAMETER: 1 1/4" TO 1 1/2" O.D.
F. SPACE BETWEEN WALL AND GRAB BAR: 1 1/2".
G. TOILET PAPER DISPENSER: 36" MAX. FROM REAR WALL, 19" MIN. A.F.F.
H. KNEE CLEARANCE AT LAVATORY: APRON 29" MIN. HEIGHT, 8" MIN. DEPTH.
I. LAVATORY DEPTH: 17" MIN.
J. LAVATORY HOT WATER AND DRAINPIPPES TO BE INSULATED WHEREVER EXPOSED WITH FORM FITTING WRAPS.
K. LAVATORY COUNTER TOP: 34" MAX. A.F.F.
L. MIRROR BOTTOM EDGE: 40" MAX. A.F.F.
M. INTERNATIONAL SYMBOL OF ACCESSIBILITY TO BE INSTALLED ON EXTERIOR OF THE TOILET ROOM DOOR. IDENTIFICATION SIGNS ARE RAISED SAN SERIE OR SIMPLE SERIE AND ALSO HAVE GRADE 2 BRAILLE.
PICTORIAL SYMBOLS ARE AT LEAST 6" HIGH AND INCLUDE VERBAL DESCRIPTION. ROOM IDENTIFICATION SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE ROOM DOOR AT A HEIGHT OF 60" A.F.F. PROVIDE CLEAR FLOOR SPACE AT SIGN.





01 ENLARGED KITCHEN EQUIPMENT PLAN
SCALE: 1/4"=1'-0"

KITCHEN EQUIPMENT SCHEDULE				FIXTURE AND MISCELLANEOUS EQUIPMENT SCHEDULE			
#	DESCRIPTION	MANUF/MODEL	COMMENTS	#	DESCRIPTION	MANUF/MODEL	COMMENTS
K1	INSULATED SALAD PAN	CUSTOM FABRICATED (7' LENGTH)	W/ SALAD INSERTS, SUPPLY PUC & CONNECT TO DRAIN	X01	SODA/ICE DISPENSER	"COKE" VENDOR	G.C. TO SUPPLY POWER
K3	REACH-IN REFRIGERATOR	TRUE FOOD SERVICE/TS-23	W/ CASTERS AND 6 SHELVES	X02	CARBONATOR W/ SS SHELF	"COKE" VENDOR	G.C. TO SUPPLY POWER, WATER
K4A	BEVERAGE BEER SYSTEM	GLASS TENDER	THROUGH-WALL BEER SYSTEM	X03	BAG & BOX RACK	"COKE" VENDOR	SET UNDER CARBONATOR
K4B	BEVERAGE BEER SYSTEM	GLASS TENDER	LONG DRAW PUMP SYSTEM	X04	TEA DISPENSER	"COKE" VENDOR	BLACK BOX FILTER MOUNTED NEXT TO CARBONATOR
K5	COFFEE MAKER	BUNN/CWIT-152	AUTOMATIC COFFEE BREWER W/ LOWER WARMER, HOT WATER FAUCET, PLASTIC FUNNEL AND POUR-OVER FEATURE	X06	BULK CO2 TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK
K6	PROOFING RACK	METRO/SUPER ERCTA SHELVE	36"x48" WITH CASTERS	X07	HELIUM TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK
K9	SS WALL PANELING	CUSTOM FABRICATED	SS TRIM INSTALLED UP TO BOTTOM OF HOOD AND MAKE TABLE	X08	SAFE	MOGUNK QD 1021	REQUIRES OUTLET @ 18" A.F.F.
K10A	REFRIG. PIZZA MAKE TABLE	KAIHAK K5-8	2 SIDED REFRIGERATED PIZZA TABLE W/ TICKET MINDER AND NIGHT COVERS AND CASTERS	X10	FILE CABINET	-	FOUR DRAWER FILE CABINET IN MANAGERS OFFICE & TWO DRAWER FILE CABINET IN TECH OFFICE
K10B	REFRIG. PIZZA MAKE TABLE	TRUE FOOD SERVICE/TPP-43	1 SIDED REFRIGERATED PIZZA TABLE W/ NIGHT COVERS AND CASTERS	X11	CASH REGISTER SYSTEM	IBM	TWO DRAWER FILE CABINET IN MANAGER & TECH OFFICE (THIS IS ONLY USED FOR SMALL MARKET STORES)
K13	DR. STACK PIZZA OVEN	LINCOLN IMPINGER/1450	72" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @ 72" A.F.F. (GRAH-72 (240V))	X12	TOKEN DISPENSERS	SBT	PROVIDE DEDICATED POWER & PHONE OUTLETS (INCLUDING KITCHEN PANTRY)
K14	EXHAUST HOOD	CAPTIVE AIRE #8624VH1	INCLUDES CURB, DUCTWORK BY G.C.	X13	AIR COMPRESSOR & DRYER	INGERSOLL RAND 2475N6 & DS15	SEE DETAIL
K16A	SS CUT TABLE	CUSTOM FABRICATED	72" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @ 72" A.F.F. (GRAH-72 (240V))	X14	EMPLOYEE MONITOR	13" PANASONIC	TV SITS ON TOP OF SHELF IN EMPLOYEE BREAK AREA
K16B	SS CUT TABLE	CUSTOM FABRICATED	60" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @ 72" A.F.F. (GRAH-60 (240V))	X15	MANAGERS SECURITY	-	MOUNT HANGER IN MANAGERS OFFICE
K19	SS CORNER GUARDS	CUSTOM FABRICATED	CUT TO FIT APPLICATION IN THE FIELD	X16	27" MONITOR/HANGER	LUCASE/JVC	MOUNT PER DETAIL
K20A	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE/SSU-48-8	WORK TABLE W/ CASTERS, 48" 1403042 9/16	X17	35"38" MONITOR/HANGER	LUCASE/JVC	MOUNT PER DETAIL
K20B	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE/SSU-27-8	WORK TABLE W/ CASTERS, 27" 1403042 9/16	X18	ROPE & STATION PACKAGE	LAVI	FIELD VERIFY NUMBER OF POLES AND HEAD REQ'D (CORE DRILLED)
K21	DUNNAGE RACK	WIN-HOLD/DASQ-3-1224	24"x36" AT OVEN	X19	CONDIMENT STANDS	PROGRESSIVE/CUSTOM	-
K22	DUNNAGE RACK	WIN-HOLD/DASQ-4-1224	1-24"x48" IN COOLER UNDER KEGS, AND 1-24"x48" IN DRY STORAGE AREA	X20	RUBBER TRASH CART	EDON	-
K23	DOUGH MIXER	VARI-MIXER/M002P	VERIFY CLOCKWISE ROTATION AND DISCONNECT @ 42" A.F.F.	X21	BALLON HANGER	EDON	-
K24	SS BUNNING TABLE	CUSTOM FABRICATED	30"x60" W/ BACKSLASH AND CASTERS	X22	MOP & BROOM HANGERS	EDON 1286	WALL MOUNTED, SEE INTERIOR ELEVATIONS
K26	SS DOUGH TABLE	CUSTOM FABRICATED	W/ UNDERSHELF AND CASTERS (VERIFY LENGTH ON PLAN)	X23	WINDOW BLINDS	INSOROLL	VERIFY # NEEDED - INSTALL ON WEST AND SOUTH ELEVATIONS (MANUAL OPERATION)
K29	DOUGH ROLLER	SOMERSET IND. KCR-2000	OUTLET @ 50" A.F.F.	X24	ECOLAB SYSTEM	ECOLAB	MOUNTS @ DISHWASHER & MOP SINK (G.C. TO COORDINATE)
K31A	SS VEG. PREP SINK/TABLE	CUSTOM FABRICATED	3 S.S. PREP SINK 72" W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF	X25	SECURITY SYSTEM	EDON	G.C. TO COORDINATE INSTALLATION
K31B	SS VEG. PREP SINK/TABLE	CUSTOM FABRICATED	S.S. PREP SINK 53" W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF	X26	CAN OPER.	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE
K34A	DOUBLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE/TS-40F	W/ CASTERS AND 6 SHELVES	X28	KNIFE SHARPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE - NOT SHOWN ON PLAN
K34B	SINGLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE/TS-23F	W/ CASTERS AND 6 SHELVES	X30	TRAINING AIDKIT: SIGNAGE	STB	COORDINATE W/ TRAINING MGR. TO LOCATE - NOT SHOWN ON PLAN
K34A	WALK-IN COOLER	KOLPAK 8-8 12' x 17'-4" x 9'-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELECT. CONNECT (INCLUDE DR. STOPS @ CLSR. HT.)	X31	MARKETING LIGHT BOX	PROGRESSIVE/CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS - 2 EA FOR LARGE MARKET LOCATION / 1 EA FOR SMALL MARKET LOCATION
K35B	WALK-IN COOLER	KOLPAK 7-9' x 13'-4" x 9'-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELECT. CONNECT (INCLUDE DR. STOPS @ CLSR. HT.)	X34	MENU BOARD	CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS
K35C	WALK-IN COOLER	KOLPAK 8-8 12' x 13'-4" x 9'-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELECT. CONNECT (INCLUDE DR. STOPS @ CLSR. HT.)	X35	DOOR MIRROR	-	WALL MOUNTED
K36	FROZEN MERCHANDISER	VARIMIXER/M002P	W/ CASTERS, (5) SHELVES (DUNNAGE ON BOTTOM)				
K38	COOLER SHELVE	METRO/METROSEAL II	INCLUDES CASTERS - 5 EA FOR LARGE MARKET LOCATION / 4 EA FOR SMALL MARKET LOCATION				
K44	BUN RACKS, 20 SHELVES	WIN-HOLD/TAL-1820B	W/ CASTERS AND 6 SHELVES				
K45A	ICE MAKER	MANITOWOC/1894N	ICE BIN: FOLLETT CORPORATION/SGS 1890S-80 W/ FILTER SYSTEM				
K45B	ICE MAKER	MANITOWOC/1894N	ICE BIN: MANITOWOC/SGS-970 W/ FILTER SYSTEM				
K46	10" DISH TABLE W/ 3 COM. SINK	CUSTOM FABRICATED	INCLUDES SCRAP SINK, FAUCETS, SPRAYER AND STANDOFF				
K48	DISHWASHER SANITIZER	JACKSON/CONSERVER XL LOW-TEMP	CONTRACTOR TO CONNECT ELECTRICAL AND DRAIN				
K50	SS CLEAN DISH TABLE	CUSTOM FABRICATED	REFER INSTALLATION INSTRUCTIONS				
K54	DRY STORAGE SHELVE	METRO/SUPER ERCTA	MOUNT @ 5'-2" A.F.F. PROVIDE BLOCKING				
K57	4'-0" SS WALL SHELF	NEW AGE/1127A	MOUNT @ 5'-2" A.F.F. PROVIDE BLOCKING				
K58	5'-0" SS WALL SHELF	NEW AGE/1127A	REFER TO PLUMBING SCHEDULE				
K62	MOP SINK	ADVANCE TABCO/TPS-50	W/ WRIST BLADES, SOAP, AND TOWEL DISPENSERS				
K63	HAND SINK W/ FAUCET	ADVANCE TABCO/TPS-50	INCLUDES SS BASE GOLD MEDAL/3036 AND UNIFLOSS TOP HALF 3035 W/ CASTERS				
K64	COTTON CANDY MACHINE	GOLD METAL PRODUCTS/3000S-E	MOUNT ON WALL NEXT TO MOP SINK 5'-6" A.F.F. HOLD ECOLAB TIGHT BELOW CABINET, SEE ELEVATIONS				
K67	CHEMICAL STORAGE CABINET	KELMAX EQUIPMENT/CS-1836	20" DEPTH (REF. EQUIPMENT FOR HEIGHTS)				
K70	STORAGE RACK	METRO/SUPER ERCTA	ABOVE DELIVERY KITCHEN DOOR				
K71	AIR CURTAIN	MARS AIR DOORS/42CH	NOT SHOWN ON PLAN / ONE EACH PER LOCATION				
K80	ROLLING CAKE CUT TABLE	METRO/BC2836-34	FOR COFFEE - MOUNT @ 32" A.F.F. - PROVIDE OUTLET @ 38" A.F.F. FLOOR SINK BELOW FOR COFFEE BEER PAN				
K82	2'-0" SS COFFEE SHELF	CUSTOM FABRICATED	12" DEPTH (REF. EQUIPMENT FOR HEIGHTS)				
K89	BUMPER RAILS	KASONS/CUSTOM FABRICATED	12" DEPTH W/ VENDOR INSTALLED TICKET MINDER, MOUNTED 4'-10"				
K100	2'-0" ALUMINUM SHELF	NEW AGE/NS675A	3 EA LARGE MARKET LOCATION / 1 EA SMALL MARKET LOCATION				
K101	6'-0" PIZZA MAKE WALL SHELF	NEW AGE/1126A					
K102	EMPLOYEE STOOLS	MODERN LEATHERETTE MDLP					

CHUCK E. CHEESE'S PIZZA

3500 SW COLLEGE ROAD UNIT 200
OCALA, FL 34471
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

ENLARGED KITCHEN EQUIPMENT PLAN

780

OCALA, FL

DATE: 10/18/2004

Revisions

11/02/04 HOTELS & REST. COMMENTS

Project Number: 58-780

Sheet Number: A9.1

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DATE: 10/18/2004
DRAWING: 10/18/2004
PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"
COLOR: 10/18/2004
PEN: 10/18/2004
SCREEN: 10/18/2004

GENERAL DEMOLITION NOTES:

1. Beginning of demolition means installer accepts existing conditions.
2. Demolish indicated structures and fixtures in an orderly and careful manner.
3. Protect existing landscape materials, appliances, and structures which are not to be demolished.
4. Erect weatherproof closures for exterior openings created by demolition work.
5. Promptly remove and dispose of contaminated, vermin infested, or dangerous materials.
6. Do not burn or bury materials on site.
7. Remove all floor finishes down to substrate.
8. Remove walls and structures down to surface which may be refinished.
9. Do not cut structural members until adequate bracing has been installed.
10. Where the scope of work requires penetration of the existing slab, the G/C shall verify existing slab's construction type. Do not saw cut conc. slab, core drill only where a slab on grade is to be found, the G/C shall patch, repair and install reinforcing #5 x 18' dowels with 9" embedment @ 48" o.c. along perimeter of new work. G/C to notify owner if a structurally supported slab is to be found existing. Do not cut any portion of the slab's structural reinforcing. The G/C & his Sub-Contractors shall maintain the integrity of the existing slab.

Mechanical Demolition Notes:

1. Disconnect, remove, and cap designated utilities and fixtures within demolition areas.
2. Mark location of disconnected utilities.

Electrical Demolition Notes:

1. Remove abandoned wiring to source of supply.
2. Verify that abandoned wiring and equipment serves only abandoned facilities.
3. Coordinate utility service outages with M&T.
4. Cut conduit flush with or beneath walls and floors, and refinish surfaces.

DEMOLITION NOTES:

- 1 DEMO EXISTING WALLS AS INDICATED
- 2 DEMO EXISTING DOORS AND FRAMES AS INDICATED
- 3 REMOVE PORTION OF EXISTING WALL AS INDICATED. PREPARE FOR NEW WORK. REFERENCE SHEET A1.0 FOR LIMITS OF DEMOLITION.
- 4 REMOVE EXISTING MOP SINK. CAP EXT'G. PLUMBING STUBS AS REQUIRED.
- 5 DEMO EXISTING FLOOR DRAINS THROUGHOUT. CAP STUBS FLUSH W/ FLOOR. PREPARE FOR NEW FLOOR APPLICATION. REF. PLUMBING SHEETS FOR LOCATION.
- 6 REMOVE EXISTING FLOORING THROUGHOUT. PREPARE FOR NEW FLOORING INSTALLATION.
- 7 DEMO ALL EXISTING DECOR & MAINSCOTS. PATCH & PREPARE WALLS FOR NEW FINISH APPLICATIONS.
- 8 DEMO EXISTING RESTROOM FIXTURES AND ALL RELATED ITEMS. CAP EXISTING PLB'G STUBS AS REQUIRED. PREPARE FOR NEW WORK
- 9 REMOVE EXISTING BULKHEADS THROUGHOUT

CONTAMINANTS

1. WHEN SUSPECT MATERIALS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY OWNER OF POSSIBLE CONTAMINANTS & LEAVE AREA UNDISTURBED.
2. CONTAMINATED MATERIALS ARE TO BE REMOVED BY OTHERS IN CONFORMANCE WITH LOCAL CODES & ENVIRONMENTAL/WORK SAFETY REGULATIONS FOR REMOVAL & DISPOSAL.
3. IF CONTAMINATED MATERIALS ARE FOUND CONFIRM THAT REMEDIATION HAS BEEN DONE IN AN ACCEPTABLE MANNER PRIOR TO COMMENSING OR RESUMING DEMOLITION.

LEGEND

- EXISTING WALLS TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN

EXISTING LIGHTS TO REMAIN AT EXISTING SPACE

GENERAL DEMOLITION NOTE:

DEMOLISH EXISTING LIGHTING FIXTURES. RETAIN EXISTING SUPPLY AIR GRILLES FOR REPAIRING AND RELOCATION AS PER SHT. A3.0. ALSO, SAVE EMERGENCY LIGHT FIXTURES, EXIT LIGHT, AND SMOKE DETECTORS FOR RELOCATION AS PER SHT. A3.0

ALL SANITARY SEWER SERVICES PERTAINING TO THIS SITE SHALL BE FIELD EXCAVATED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ORDER TO DETERMINE ACTUAL INVERTS AND LOCATIONS.

These plans have been checked to meet all codes which the City of Ocala enforces. If there are any errors, omissions, or oversights made by the person(s) checking these plans, this does not omit the enforcement of these said codes, and no CO will be issued until the said code violation(s) are corrected.

Signature

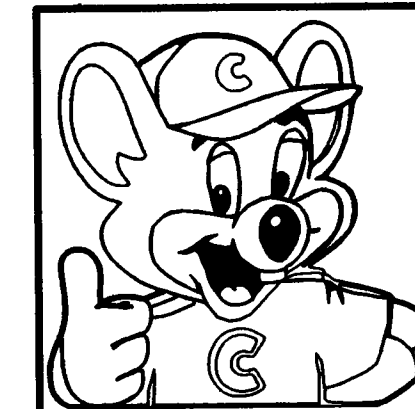
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BY

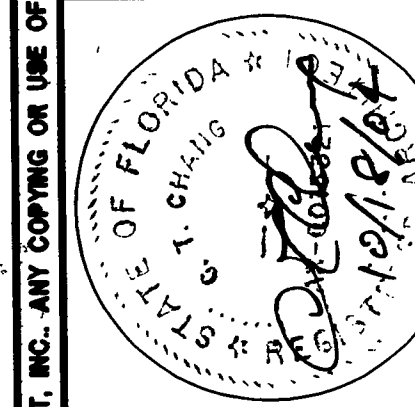
CITY OF OCALA

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PERMIT
ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, AIA
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

780
OCALA, FL
FLOOR PLAN
CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



Date
10/18/2004

Revisions

Project Number
SB-780

Sheet Number

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of 13

LABEL "CAUTION - SERIES COMBINATION SYSTEM" (NEC 110-22)

CATEGORY	CONN. LOAD		CODE	CODE LOAD		MOUNTED:	SURFACE	REMARKS:
	KVA	AMPS	FACTOR	KVA	AMPS			
CONTINUOUS:	24.68	69	125%	30.9	88			@ THRU 12-POLE CONTACTOR
RECEPTACLE:	2.00	6	100%	2.0	6			# LOCK-ON DEVICE
MOTORS:	0.4	1	100%	0	0			+ 'SWD' BREAKER SHALL
KITCHEN EQUIPMENT:		0	100%	0	0			BE USED AND APPROVED
AIR CONDITIONING:		0	100%	0	0			FOR SWITCHING
HEAT (ELECTRIC):		0	100%	0	0			
OTHER LOAD:	3.9	11	100%	3.9	11			
LARGEST MOTOR:		0	25%	0	0			
TOTAL:	30.98	86		36.8	102			

PHASE 'A': 10490 2%

PHASE 'B': 11050 7%

PHASE 'C': 9440 -5%

% UNBALANCE

IG BAR

LABEL "CAUTION - SERIES COMBINATION SYSTEM ..." (NEC 110-22)

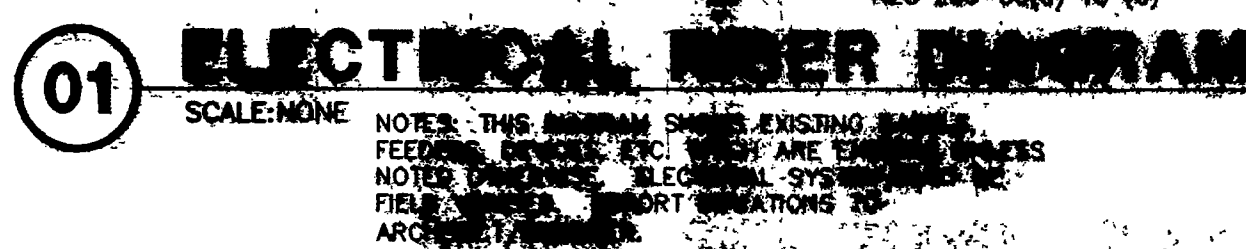
CATEGORY	CONN. LOAD		CODE		CODE LOAD		MOUNTED:	SURFACE	REMARKS:
	KVA	AMPS	FACTOR	KVA	AMPS	VOLTS:			
CONTINUOUS:	23.80	66	125%	29.8	83	PHASEWIRE:	3 / 4	IG BAR	
RECEPTACLE:	1.20	3	100%	1.2	3	MAIN SIZE:	225 AMPS		
MOTORS:	6	17	100%		0	MAIN TYPE:	M.L.O.		
KITCHEN EQUIPMENT:		0	100%	0.0	0	BUS TYPE:	COPPER		
AIR CONDITIONING:		0	100%			SERIES RATE:	A2XA		
HEAT (ELECTRIC):	0	0	100%	3.0	8				
OTHER LOAD:	3.24	9	100%	3.2	9	PHASE 'A':	11600 2%		
LARGEST MOTOR:	6	17	25%		0	PHASE 'B':	11600 2%		
TOTAL:	34.24	95		37.2	103	PHASE 'C':	11040 -3%		

LABEL "CAUTION - SERIES COMBINATION SYSTEM " (NEC 110-22)

CATEGORY	CONN. LOAD		CODE FACTOR	CODE LOAD		MOUNTED:	SURFACE	REMARKS:
	KVA	AMPS		KVA	AMPS	VOLTS:	120/208	
CONTINUOUS:	0.20	1	125%	0.3	1	PHASEWIRE:	3 / 4	
RECEPTACLE:	1.26	4	100%	1.3	4	MAIN SIZE:	225 AMPS	
MOTORS:	3.64	10	100%	3.6	10	MAIN TYPE:	M.L.O.	
KITCHEN EQUIPMENT:	33.96	84	65%	22.1	61	BUS TYPE:	COPPER	
AIR CONDITIONING:	0.00	0	100%	0.0	0	SERIES RATE:	42KA	
HEAT (ELECTRIC):	0.00	0	0%	0.0	0	% UNBALANCE		
OTHER LOAD:	2.92	8	100%	2.9	8	PHASE 'A':	14765 6%	
LARGEST MOTOR:	1.84	5	25%	0.5	1	PHASE 'B':	12605 -7%	
TOTAL:	42.02	117		30.6	85	PHASE 'C':	13985 1%	

ALL HEATING, AIR CONDITIONING AND REFRIGERATION UNITS SHALL HAVE "HACR" BREAKER	IG BAR
---	--------

1. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF BONDING TOGETHER, THE METAL UNDERGROUND WATER PIPE, CONCRETE ENCASED ELECTRODE, GROUND-RING, AND ANY ROD AND/OR PIPE ELECTRODES IN COMPLIANCE WITH NEC ARTICLE 250.
2. COORDINATE WITH LANDLORD AND LOCAL POWER CO. FOR COMPLETE ELECTRICAL SERVICE ENTRANCE INCLUDING METERING. FIELD VERIFY EXACT LOCATION AND INCLUDE ALL REQUIREMENTS IN BID. (SERVICE IS EXISTING)
3. MAIN BONDING JUMPER SHALL NOT BE SMALLER THAN #2/0 CU AND EQUIPMENT BONDING JUMPER SHALL NOT BE SMALLER THAN #2/0 CU. INSTALL AND PROVIDE PER NEC 250-102. (SERVICE IS EXISTING)
4. ALL ELECTRICAL PANELS SHALL BE SERIES RATED FOR 22K/10KA AND PROPERLY LABELED PER NEC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY AVAILABLE FAULT AND NOTIFY ENGINEER FOR ANY DEVIATION FROM SHOWN DESIGN AND PROVIDE HIGHER RATED EQUIPMENTS.



1. ALL BREAKERS SHALL BE THE 200-A TYPE.
2. SWITCH BREAKERS OF MP AND 200-A CONFIGURATION SHALL HAVE A COMMON TRIP.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
4. ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "MO".
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUITS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE AND WRITTEN IDENTIFICATION. LABELING INCLUDES PANELS A,B,S,K, & MP.
6. INCOMING SERVICE SHALL BE 200/220V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING.
7. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
8. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
9. THE MINIMUM SIZE OF WIRE SHALL BE #12 AWG THIN COPPER. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
10. ALL CONDUITS PENETRATING THE COOLER BOX SHALL BE SEALED IN COMPLIANCE WITH NEC 300-7 (NOT USED)
11. THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC AND TELEPHONE UTILITY CO. FOR MOUNTING REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID. (NOT USED) (EXISTING)
12. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYS ALIKE.
13. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:
 1. TYPICAL CONDUIT PERMITTED IN NEC 334-3 AND INSTALLED PER 334-10.
 2. TYPICAL CONDUIT PERMITTED IN NEC 334-3 AND INSTALLED PER 334-10.
 3. RIGID NON-METALLIC CONDUIT (COMPLY WITH NEC 347)
 4. USE SHALL BE ONLY FOR OUTDOOR USE OR USE IN SLABS)ALL RACEWAYS SHALL HAVE A FULL SIZE GROUNDING CONDUCTOR INSTALLED. POWER, NONMETALLIC TUBING, AND BX CABLEING SHALL NOT BE USED.

(EXISTING AS MODIFIED)

LABEL "CAUTION - SERIES COMBINATION SYSTEM " (NEC 110-22)										
MAIN SIZE: 600 Amp w/ 600 Amp Main Brkr						LOCATION: STORAGE ROOM				
SERVICE VOLTAGE: 120/208										
PHASE / WIRE: 3 / 4						FED FROM: TRANSFORMER				
MOUNTING: SURFACE						FULL RATE: 42 KA				
CTT. NO.	SERVES	No. OF POLES	KVA	No. OF SETS	WIRES PER SET	WIRE SIZE	GRD SIZE	CONDUIT SIZE (IN.)	M.O.C.P. AMPS	FLA
1	RTU-1	3	9.94	1	3	8	10	3/4	46	28
7	RTU-2	3	10.62	1	3	8	10	3/4	45	38
13	RTU-3	3	16.62	1	3	8	10	3/4	46	38
19	RTU-4	3	13.25	1	3	8	10	3/4	60	37
25	RTU-6	3	13.25	1	3	8	10	3/4	60	37
31	PANEL LA	3	30.98	1	4	4/8	4	2-1/2	225	96
37	PANEL LB	3	34.24	1	4	4/8	4	2-1/2	225	96
2	PANEL KA <i>MODIFIED</i>	3	42.02	1	4	4/8	4	2-1/2	225	117
4	RTU-4 <i>MODIFIED</i>	3	31.65	1	3	3	8	1-1/4	190	88
14	EXTERIOR WALL PACKS	2	2	1	2	10	12	1/2	20	8
18	EXTERIOR WALL PACKS	2	2	1	2	10	12	1/2	20	8
REMAINING CIRCUITS ARE SPARES										0

CATEGORY	CONNECTED LOAD		CODE FACTOR	CODE LOAD		REMARKS:
	KVA	AMPS		KVA	AMPS	
CONTINUOUS: (NEC 215-2)	62.68	146	125%	65.85	183	ALL RTU'S SHALL HAVE "HACR" BREAKERS.
RECEPTACLE: (TABLE 220-13)	4.48	12	100%	4.48	12	
MOTORS: (NEC 430-24)	10.84	28	100%	10.84	28	
KITCHEN: (TABLE 220-20)	33.96	84	65%	22.09	61	
AIR CONDITION: (NEC 220-38(c))	89.36	248	100%	89.36	248	REMOVE ALL CIRCUITS NOT SHOWN ABOVE.
HEAT (ELECTRIC): (NEC 220-21)			0	100%	0.00	0
OTHER LOAD: (NEC 215-2)	10.06	28	100%	10.06	28	EXISTING SERVICE: 600 Amps (2) SETS: (4) #55 THWN #10 G. 3" C.
LARGEST MOTOR: (NEC 430-24)	6.00	17	25%	1.50	4	
TOTAL (TABLE 220-36):	200.60	557		203.38	565	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1/8"=1'-0" / PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"

PANELBOARD SCHEDULE LA

LABEL "CAUTION - SERIES COMBINATION SYSTEM" (NEC 110-22)

DESIGNATION	POLES	LOAD, VA				#	Ph	#	LOAD, VA			POLES	DESIGNATION
	AMPS	CONT.	RECP.	OTHER				CONT.	RECP.	OTHER	AMPS		
# EMERGENCY / EXIT	1/20	1200			1	A	2	1100			1/20	# EMERG'Y B1 LIGHTS	
+ KITCHEN A1 LIGHTS	1/20	900			3	B	4			600	1/20	# SECURITY SYSTEM	
+ RESTROOM A1 LIGHTS/ EF-3	1/20	900		400	5	C	6				1/20	SPARE	
+ GIFT CNTR A1 LIGHTS	1/20	1300			7	A	8			900	1/20	CASH REGISTER (2)	
+ GIFT CNTR TRACK LIGHTS	1/20	1350			9	B	10		400		1/20	QUAD RECP	
+ SERVICE LIGHTS	1/20	1050			11	C	12			900	1/20	COMPUTER/PRINTER/ REG.	
+ DINING K, G LIGHTS	1/20	1250			13	A	14				1/20	SPARE	
+ DINING A, D LIGHTS	1/20	1200			15	B	16		600	300	1/20	TECH AREA RECP/ MON. (4)	
+ DINING A LIGHTS	1/20	300			17	C	18		600		1/20	OFFICE RECP (3)	
+ SHOWRM A, K LIGHTS	1/20	1380			19	A	20				1/20	SPARE	
+ SHOWRM K, G LTS	1/20	1200			21	B	22				1/20	SPARE	
+ MKT. LIGHT BOX	1/20	1200			23	C	24			1200	1/20	BANK CARD	
+ PRIZE CABINET/ SLAT LTS	1/20	1200			25	A	26				2/20	SPARE	
+ SHOWRM A, K LTS	1/20	1380			27	B	28						
+ STORAGE AREA LTS	1/20	750			29	C	30		400		1/20	+ SKY CRAWL RECP (2)	
+ STORAGE AREA LTS	1/20	1040			31	A	32				1/20	SPARE	
+ STORAGE AREA LTS	1/20	1200			33	B	34		500		1/20	EXT. LED ACCENT	
SPARE	1/20				35	C	36		1000		1/20	EXT. NEON ACCENT	
SPARE	1/20				37	A	38		1120		1/20	10" THUMBCHUCK SIGN	
@ AWNING LIGHTS	1/20	800			39	B	40		620		1/30	6" THUMBCHUCK SIGN	
@ AWNING LIGHTS	1/20	800			41	C	42		240		1/20	30" LETTER SIGNAGE	

CATEGORY	CONN. LOAD	CODE	CODE LOAD		
	KVA	AMPS	FACTOR	KVA	AMPS
CONTINUOUS:	24.88	69	125%	30.9	86
RECEPTACLE:	2.00	6	100%	2.0	6
MOTORS:	0.4	1	100%	0	0
KITCHEN EQUIPMENT:		0	100%	0	0
AIR CONDITIONING:		0	100%	0	0
HEAT (ELECTRIC):		0	100%	0	0
OTHER LOAD:	3.9	11	100%	3.9	11
LARGEST MOTOR:		0	25%	0	0
TOTAL:	30.98	86		36.8	102

MOUNTED:	SURFACE	REMARKS:
VOLTS:	120/208	# THRU 12-POLE CONTACTOR
PHASE/WIRE:	3 / 4	LOCK-ON DEVICE
MAIN SIZE:	225 AMPS	+ SWD / BREAKER SHALL
MAIN TYPE:	M.L.O.	BE USED AND APPROVED
BUS TYPE:	COPPER	FOR SWITCHING
SERIES RATE:	42KA	
	% UNBALANCE	IG BAR
PHASE 'A':	10490	2%
PHASE 'B':	11050	7%
PHASE 'C':	9440	-9%

PANELBOARD SCHEDULE LB

LABEL "CAUTION - SERIES COMBINATION SYSTEM" (NEC 110-22)

DESIGNATION	POLES		LOAD, VA				#	Ph	#	LOAD, VA			POLES	DESIGNATION
	JAMPS	CONT.	RECP.	OTHER	CONT.	RECP.				OTHER	JAMPS			
GAMES - WALL (3)	1/20	1200				1	A	2				2000	3/25	AIR COMPRESSOR
GAMES - WALL (3)	1/20	1200				3	B	4				2000	--	(3) #10 AWG, (1) #12B; 3/4" C
GAMES - WALL (3)	1/20	1200				5	C	6				2000	--	--
GAMES - WALL (3)	1/20	1200				7	A	8				1/20	SPARE	
GAMES - FLOOR (3)	1/20	1200				9	B	10				2/20	SPARE	
GAMES - FLOOR (3)	1/20	1200				11	C	12				--		
GAMES - FLOOR (3)	1/20	1200				13	A	14			800	1/20	CONVENIENCE RECP. (4)	
GAMES - FLOOR (3)	1/20	1200				15	B	16		600	600	1/20	TICKET MUNCHER (2)	
GAMES - FLOOR (3)	1/20	1200				17	C	18				1/20	TICKET MUNCHER (2) MAIN	
GAMES - FLOOR (3)	1/20	1200				19	A	20				1/20	ROBO/ THEAT LYS (MAIN)	
GAMES - FLOOR (3)	1/20	1200				21	B	22				1/20	ROBO/ THEAT LYS (MAIN)	
GAMES - FLOOR (2)	1/20	1200				23	C	24				600	1/20	MONITORS (2)
GAMES - FLOOR (1)	1/20	1000				25	A	26				600	1/20	MONITORS (2)
GAMES - FLOOR (1)	1/20	1000				27	B	28			400	1/20	QUAD RECP FOR MON	
GAMES - FLOOR (1)	1/20	1000				29	C	30			1440	1/20	BLUE SCREEN CAMERA	
SPARE	1/20					31	A	32	1200			1/20	RELAY CAB. "PB-1"	
GAMES - FLOOR (1)	1/20	1000				33	B	34	1200			1/20	RELAY CAB. "PB-1"	
SPARE	1/20					35	C	36	1200			1/20	RELAY CAB. "PB-1"	
SPARE	1/20					37	A	38	1200			1/20	RELAY CAB. "PB-1"	
SPARE	1/20					39	B	40				1/20	SHOW WINDOW RECP (MAIN)	
SPARE	1/20					41	C	42				1/20	SHUNT TRIP (MAIN)	

CATEGORY	CONN. LOAD		CODE	CODE LOAD		MOUNTED:	SURFACE	REMARKS:
	KVA	AMPS		FACTOR	KVA			
CONTINUOUS:	23.80	68	125%	29.8	83		120/208	
RECEPTACLE:	1.20	3	100%	1.2	3		PHASE/WIRE: 3 / 4	
MOTORS:	6	17	100%		0		MAIN SIZE: 225 AMPS	
KITCHEN EQUIPMENT:		0	100%	0	0		MAIN TYPE: M.L.O.	IS BAR
AIR CONDITIONING:		0	100%		0		BUS TYPE: COPPER	
HEAT (ELECTRIC):	0	0	100%	3	8		SERIES RATE: 42KA	
OTHER LOAD:	3.24	9	100%	3.2	9		% UNBALANCE	
LARGEST MOTOR:	6	17	25%		0		PHASE 'A': 11600 2%	
TOTAL:	34.24	95		37.2	103		PHASE 'B': 11600 2%	
							PHASE 'C': 11040 -3%	

PANELBOARD SCHEDULE KA

LABEL "CAUTION - SERIES COMBINATION SYSTEM" (NEC 110-22)

DESIGNATION	POLES	LOAD, VA				#	Ph	#	LOAD, VA				POLES	DESIGNATION
		AMPS	CONT.	RECP.	OTHER				CONT.	RECP.	OTHER	AMPS		
COFFEE BREWER -K6	1/20					2000	1	A	2			1200	1/20	REF. COUNTER PIZZA -K10
BAG-N-BOX -K3	1/20					1200	3	B	4			1500	1/30	COTTON CANDY -K4
DISHWASHER -K48	1/20					1680	5	C	6			300	1/20	COTTON CANDY -K4
CHEST FREEZER -K37 (future)	1/20						7	A	8			200	2/15	ICE MKR. CONDENSER -K41
EF-2 (1 1/4 HP)	1/20					670	9	B	10			200	-	-
EF-1 (1 HP)	1/20					1840	11	C	12		200	1/20	RECP. (1) FOR TV	
DOUGH ROLLER -K29	1/20					1500	13	A	14			1680	1/20	ICE CREAM MACHINE -K36
DRINK TOWER -K15	1/20					1000	15	B	16			1/20	SPARE	
PIZZA OVEN -K13, LOWER	1/15					600	17	C	18			1/20	SPARE	
PIZZA OVEN -K13, UPPER	1/15					500	19	A	20			720	1/20	AIR DRYER -K16
PIZZA CUT TABLE -K16	2/15					400	21	B	22			1770	3/20	ICE MAKER -K48
						400	23	C	24			1770	-	-
SAND. FRIG. TABLE -K20b	1/20					1200	25	A	26			1770	-	-
REACH IN REFRIG -K3 (future)	1/20						27	B	28			1130	1/20	FLY BAR FF-1 (1/2 HP)
MANAGER PANEL	1/20					1200	29	C	30			1625	3/20	FOOD MIXER -K23
REACH IN FREEZER -K34b	1/20					1080	31	A	32			1625	-	-
WALK IN COOLER COND. -K35.1	3/20					1290	33	B	34			1525	-	-
	-					1290	35	C	36			900	1/20	GAS WTR. HTV. WTR. SODAS
	-					1290	37	A	38			1/20	SPARE	
MENU BD -K34/EVAP. LTS. -K35	1/20		200			1000	39	B	40			1080	1/20	REACH IN FREEZER -K34b
KITCHEN CONV. RECP. (5)	1/20				1080	41	C	42				1200	1/20	REF. SALAD PAN -K1

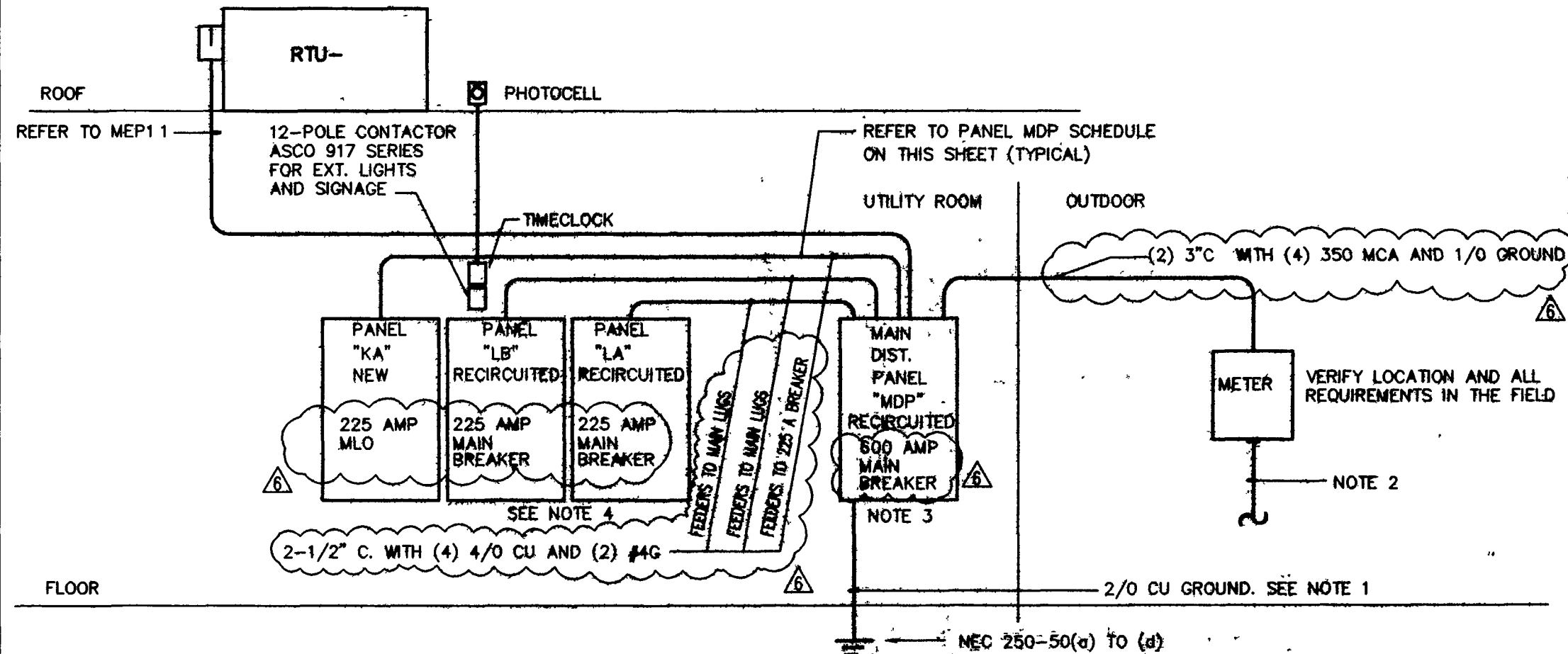
CATEGORY	CONN. LOAD		CODE	CODE LOAD		REMARKS:
	KVA	AMPS	FACTOR	KVA	AMPS	
CONTINUOUS:	0.20	1	125%	0.3	1	ALL HEATING, AIR CONDITIONING AND REFRIGERATION UNITS SHALL HAVE 1/2"ACR BREAKER
RECEPTACLE:	1.28	4	100%	1.3	4	
MOTORS:	3.64	10	100%	3.6	10	
KITCHEN EQUIPMENT:	33.98	94	65%	22.1	61	
AIR CONDITIONING:	0.00	0	100%	0.0	0	
HEAT (ELECTRIC):	0.00	0	0%	0.0	0	
OTHER LOAD:	2.92	8	100%	2.9	8	
LARGEST MOTOR:	1.84	5	25%	0.5	1	
TOTAL:	42.02	117		30.6	85	

MOUNTED:	SURFACE	REMARKS:
VOLTS:	120/208	
PHASE/WIRE:	3 / 4	
MAIN SIZE:	225 AMPS	
MAIN TYPE:	M.L.O.	
BUS TYPE:	COPPER	
SERIES RATE:	42KA	
% UNBALANCE		
PHASE 'A':	14765	6%
PHASE 'B':	12965	-7%
PHASE 'C':	13085	1%

TO BAR

RISER NOTES:

- THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF BONDING TOGETHER, THE METAL UNDERGROUND WATER PIPE, CONCRETE ENCASED ELECTRODE, GROUND RING, AND ANY ROD AND/OR PIPE ELECTRODES IN COMPLIANCE WITH NEC ARTICLE 250.
- COORDINATE WITH LANDLORD AND LOCAL POWER CO. FOR COMPLETE ELECTRICAL SERVICE ENTRANCE INCLUDING METERING FIELD VERIFY EXACT LOCATION AND INCLUDE ALL REQUIREMENTS IN BID. (SERVICE IS EXISTING)
- MAIN BONDING JUMPER SHALL NOT BE SMALLER THAN #2/0 CU AND EQUIPMENT BONDING JUMPER SHALL NOT BE SMALLER THAN #2/0 CU. INSTALL AND PROVIDE PER NEC 250-102. (SERVICE IS EXISTING)
- ALL ELECTRICAL PANELS SHALL BE SERIES RATED FOR 22K/10KA AND PROPERLY LABELED PER NEC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY AVAILABLE FAULT AND NOTIFY ENGINEER FOR ANY DEVIATION FROM SHOWN DESIGN AND PROVIDE HIGHER RATED EQUIPMENTS.



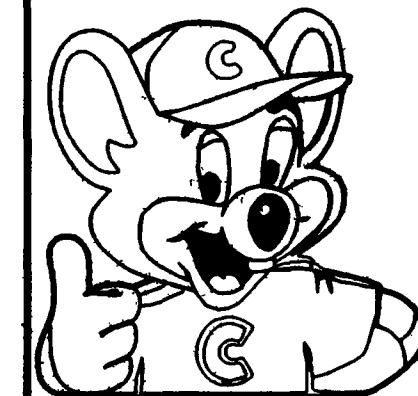
01 ELECTRICAL RISER DIAGRAM

SCALE: NONE

NOTES: THIS DIAGRAM SHOWS EXISTING PANELS, FEEDERS, DEVICES, ETC. WHICH ARE EXISTING UNLESS NOTED OTHERWISE. ELECTRICAL SYSTEM MUST BE FIELD VERIFIED. REPORT DEVIATIONS TO ARCHITECT/ENGINEER.

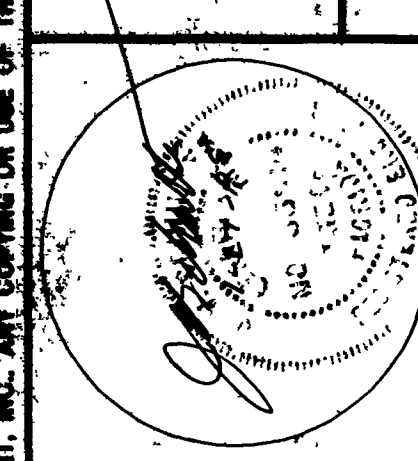
GENERAL NOTES:

- ALL BREAKERS SHALL BE THE BOLT-ON TYPE.
- BRANCH BREAKERS OF 2P- AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
- ALL CIRCUIT BREAKERS USED TO SWITCH LIGHT FIXTURES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY. LABELING INCLUDES: PANELS A,B,S,K, & MP.
- INCOMING SERVICE SHALL BE 208/120V, 3 PHASE, 4 WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING.
- ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
- ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- THE MINIMUM SIZE OF WIRE SHALL BE #12 AWG THIN COPPER. WIRES INSTALLED UNDERGROUND, OR OUTDOORS SHALL BE THIN.
- ALL CONDUITS PENETRATING THE COOLER BOX SHALL BE SEALED IN COMPLIANCE WITH NEC 300-7. (NOT USED)
- THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC AND TELEPHONE UTILITY CO. FOR INCOMING SERVICE REQUIREMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID. (NOT USED) (EXISTING)
- ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYS ALIKE.
- RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS:
 - 1. TYPE MC CABLE WHERE PERMITTED IN NEC 334-3 AND INSTALLED PER 334-10.
 - 2. METALLIC RACEWAYS: GREENFIELD, EMT, IMC, HEAVY-WALL CONDUIT.
 - 3. RIGID NON-METALLIC CONDUIT (COMPLY WITH NEC 347).(USE SHALL BE ONLY FOR OUTDOOR USE OR USE IN SLABS)
- ALL RACEWAYS SHALL HAVE A FULL SIZE GROUNDING CONDUCTOR INSTALLED. ROMEK, NONMETALLIC TUBING, AND BX CABLE SHALL NOT BE USED.
- SPECIAL ELECTRICAL NOTES:
 - CONTRACTOR SHALL SURVEY ALL EXISTING LIGHTING AND FLOOR RECEPTACLE CIRCUITS WHICH ARE TO BE DISCONNECTED FROM SERVICE WITHIN WORK AREA. REMOVE THESE CIRCUITS AND ANNOTATE THE ELECTRICAL PANEL CIRCUIT CARD WITH "SPARE" WHERE CIRCUIT IS REMOVED.
 - THE REFLECTED CEILING PLAN AND POWER PLAN SHOWS NEW LIGHTING AND GAME RECEPTABLES. THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF THE CIRCUITS SERVING THESE PROPOSED LIGHTING AND RECEPTACLE LOCATIONS. THE CONTRACTOR SHALL ANNOTATE THE ELECTRICAL PANEL CIRCUIT CARD WITH SERVICE INSTALLED.
- REVISED LIGHT FIXTURE LOCATIONS, AS WELL AS NEW LIGHT FIXTURES. SEVERAL FIXTURES WERE SLIGHTLY RELOCATED FROM THEIR EXISTING LOCATIONS (RECORDED DURING A VISUAL SURVEY) TO ACCOMMODATE THE NEW LIGHTING PLAN. AS BUILT ELECTRICAL DRAWINGS DO NOT APPEAR TO LOCATE EACH CIRCUIT SUPPORTING EXISTING LIGHTING FIXTURES AND APPLIANCE OUTLETS, THE CONTRACTOR SHALL SURVEY ALL EXISTING LIGHTING AND APPLIANCE BRANCH CIRCUITS ON EACH SUPPORTING PANEL AND SUBMIT A CIRCUIT PLAN TO ACCOMMODATE PROPOSED ELECTRICAL REVISIONS TO THE ARCHITECT FOR APPROVAL.



FINAL ISSUE
ARCHITECTURE - PLANNING - DESIGN
C. E. CHANG, AIA
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

780
Ocala, FL
ELECTRICAL SCHEDULES AND RISER
CHUCK E. CHEESE'S PIZZA.
3600 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. CHANG, AIA
1010 W. EULESS BLVD., SUITE 110
EULESS, TEXAS 76040



Date
10/18/2004
Revisions
A. FIELD REVISIONS 01/27/05
Project Number

City of Ocala

Certificate of Occupancy

BLD04-2009

This is to certify that the building located at: **3500 SW COL RD #200**
Has been inspected and may be used as: **CHUCK E CHEESE #780/INTERIOR RENOVATION**

Business Name: CHUCK E CHEESE

Permit Issued Date: November 19, 2004

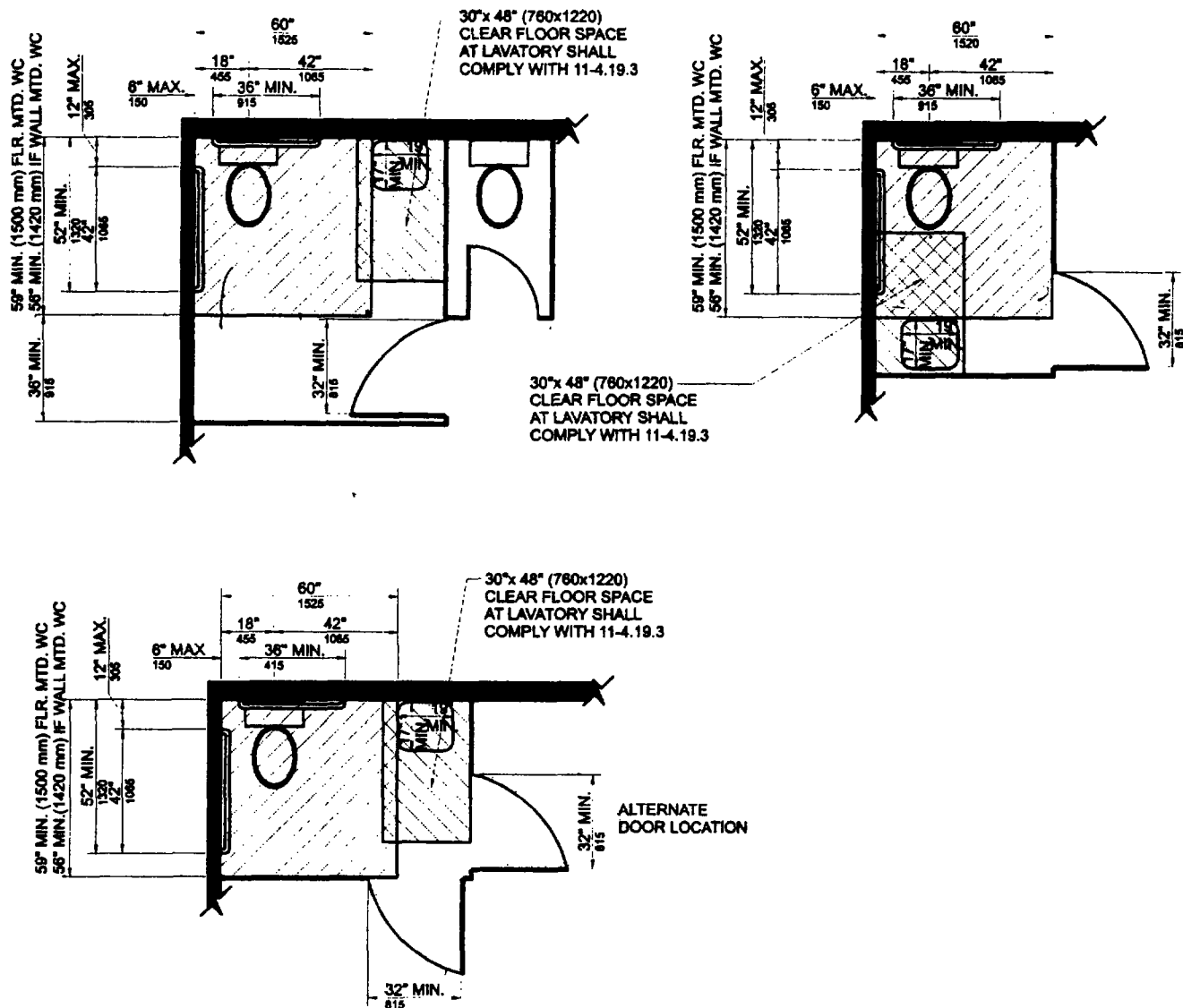
Building Contractor: PARKWAY CONSTRUCTION & ASSOC I

Contractor: ENCORE ELECTRIC INC

Parcel:	23728-000-00	Zone:	SC Shopping	Subdivision:	
Electric #:	ELE04-1467	Water Meter:	YES	Sewer:	YES
Change Of Occ:		# of Units:	0	# of Seats:	199

Date 2/8/2005

Signed **Jacques Skutt**
Building Official



IN NEW CONSTRUCTION A LAVATORY SHALL BE PROVIDED WITHIN THE ACCESSIBLE TOILET STALL. THE LAVATORY SHALL NOT ENCROACH INTO THE REQUIRED CLEAR FLOOR SPACE FOR THE WATER OFFSET. SEE FIGURE 30a FOR THE REQUIRED CLEAR FLOOR SPACE FOR THE WATER CLOSET. THE LOCATION SHOWN FOR THE LAVATORY IS ONLY ONE OF MANY POSSIBLE LOCATIONS WITHIN THE ACCESSIBLE TOILET STALL. THE WATER CLOSET SHALL BE LOCATED IN THE CORNER DIAGONAL TO THE DOOR. THE TOILET STALL DOOR SHALL NOT SWING INTO THE REQUIRED CLEAR FLOOR SPACE FOR ANY FIXTURE. FLUSH CONTROL SHALL COMPLY WITH SECTION 11-4.18.5

FIGURE 30a
TOILET STALL NEW CONSTRUCTION

HYDRAULIC DESIGN INFORMATION SHEETJob Name: **CHUCK-E-CHEESE**Location: 3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474Drawing Date: **11/22/2004**

Remote Area Number: 1

Contractor: **INTERNATIONAL FIRE PROTECTION**

Telephone:863-577-0486

3511 CENTURY BLVD

SUITE 101

LAKELAND, FLORIDA 33811

Designer: MBH

Calculated By:SprinkCAD

www.sprinkcad.com

451 N. Cannon Ave.

Lansdale, PA 19446

Construction: NON-COMBUSTIBLE

Occupancy:O.H. GROUP 1

Reviewing Authorities:CITY OF ORMOND BCH

SYSTEM DESIGN

Code:NFPA 13

Hazard:LIGHT

System Type:WET

Area of Sprinkler Operation	1120 sq ft	Sprinkler or Nozzle
Density (gpm/sq ft)	0.100	Make: RELIABL
Area per Sprinkler	260 sq ft	Model: EC-8
Hose Allowance Inside	0 gpm	K-Factor: 8.00
Hose Allowance Outside	100 gpm	Temperature Rating: 155

CALCULATION SUMMARY

7 Flowing Outlets

gpm Required: **334.1** psi Required: **53.1** @ Source

WATER SUPPLY

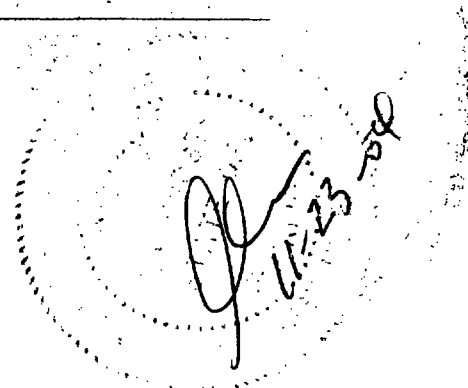
Water Flow Test		Pump Data		Tank or Reservoir	
Date of Test	9/24/2004	Rated Capacity	0 gpm	Capacity	0 gal
Static Pressure	56.0 psi	Rated Pressure	0.0 psi	Elevation	0
Residual Pres	55.0 psi	Elevation	0		
At a Flow of	1060 gpm	Make:		Well	
Elevation	0"	Model:		Proof Flow	0 gpm

Location: REAR OF STORE, HYDRANT P-153

Source of Information: JASON DEAN, IFP

SYSTEM VOLUME 210 Gallons

Notes: DINING AREA



HYDRAULIC CALCULATION DETAILS

		HYDRAULIC		FLOW	LOSS	
QTY	DESCRIPTION	LENGTH	C	ID	gpm	psi TOTALS
	Hydr Ref W	Required at Hyd Area 1			234	40.9 psi
		Elevation Change 15'0"				6.5
1	Pipe 4" 10x21 Allied	14'	120	4.260	234	0.2
1	4" Grvd Butterfly Valve CSC "570"	CHART LOSS			234	0.1
3	4" Grvd 90 Ell	30'	120	4.026	234	0.5
	Hydr Ref R1	Required at Base of Riser			234	48.3 psi
1	4" Flngd Back Flow Valve AMES "3001	CHART LOSS			234	1.9
1	4" Flngd 90 Ell	10'	120	4.026	234	0.2
		Elevation Change 6'0"				2.6
1	Pipe 6" DIx18 PC 350	40'	140	6.275	234	0.1
1	6" MJ 90 Ell	14'	120	6.065	234	0.0
1	6" Flngd Gate Valve	3'	120	6.065	234	0.0
1	6" MJ Tee	30'	120	6.065	234	0.1
		Fixed Flow Outside Hose Allow.			100 gpm	
	Hydr Ref R2	Required at Source			334	53.1 psi
Water Source 56.0 psi static, 55.0 psi residual @ 1060 gpm					334 gpm	55.9 psi
=====						
SAFETY PRESSURE						2.7 psi

Available Pressure of 55.9 psi Exceeds Required Pressure of 53.1 psi
This is a safety margin of 2.7 psi or 5 % of Supply

Maximum Water Velocity is 24.8 fps

Job

CHUCK-E-CHEESE
3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474
Remote Area: 1

Water

Static Pressure: 56.0 psi
Residual Pressure: 55.0 psi
Flow: 1060 gpm
Date/Loc: 9/24/2004 REAR OF ST

Required

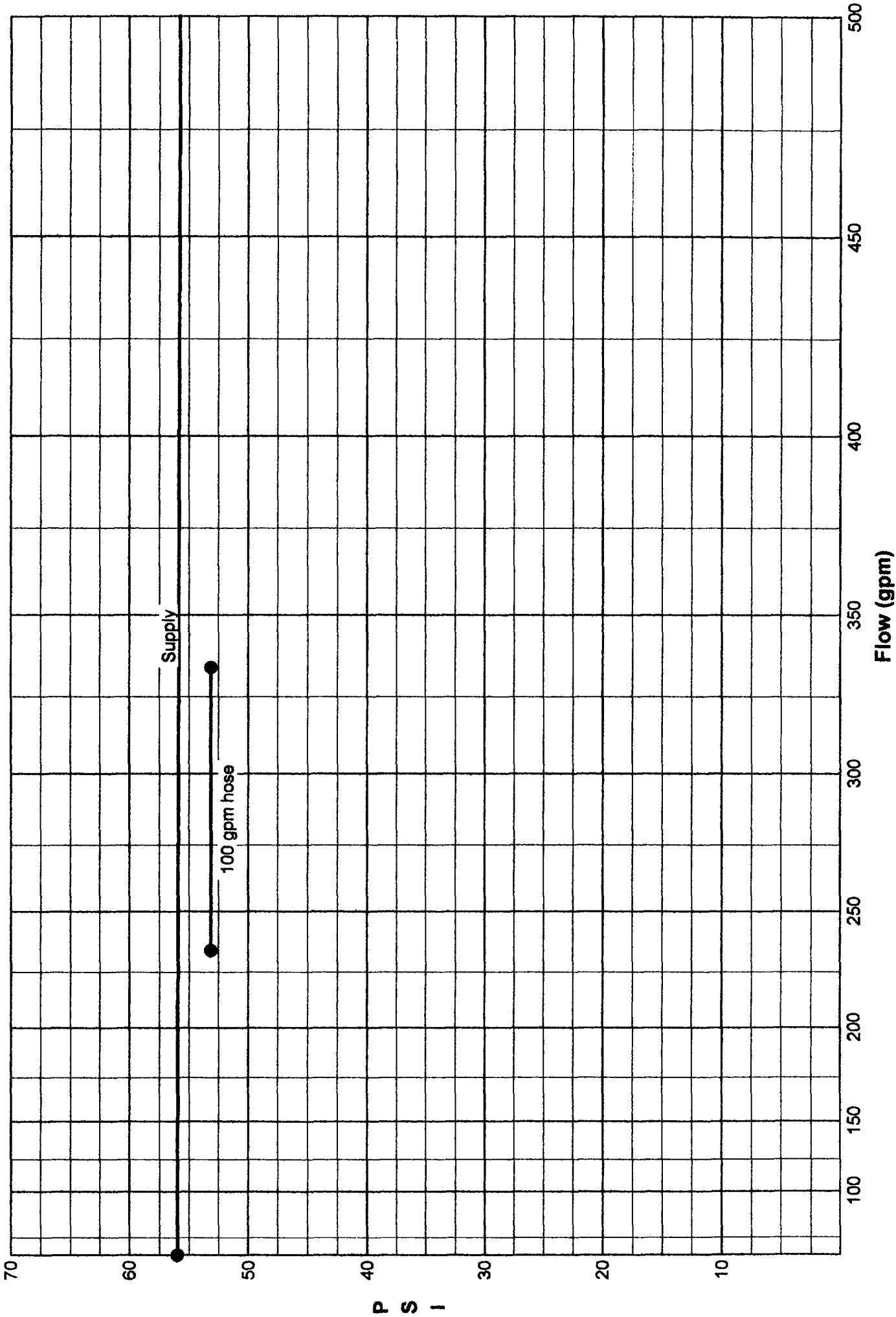
Pressure:
Total Flow:
Safety Pressure:

Hose Allowance

Inside: 0 gpm
Outside: 100 gpm

Drawn By

SprinkCAD
Tyco Fire Products
(800)495-5541



HYDRAULIC DESIGN INFORMATION SHEETJob Name: **CHUCK-E-CHEESE**Location: 3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474Drawing Date: **11/22/2004**

Remote Area Number: 2

Contractor: **INTERNATIONAL FIRE PROTECTION**

Telephone:863-577-0486

3511 CENTURY BLVD

SUITE 101

LAKELAND, FLORIDA 33811

Designer: MBH

Calculated By:SprinkCAD

www.sprinkcad.com

451 N. Cannon Ave.

Lansdale, PA 19446

Construction: NON-COMBUSTIBLE

Occupancy:O.H. GROUP 1

Reviewing Authorities:CITY OF ORMOND BCH

SYSTEM DESIGN

Code:NFPA 13

Hazard:O.H. 1

System Type:WET

Area of Sprinkler Operation 1050 sq ft | Sprinkler or Nozzle

Density (gpm/sq ft) 0.150 | Make: RELIABL

Area per Sprinkler 260 sq ft | Model: F1FR

Hose Allowance Inside 0 gpm | K-Factor: 5.60

Hose Allowance Outside 250 gpm | Temperature Rating: 155

CALCULATION SUMMARY 11 Flowing Outlets

gpm Required: **596.3** psi Required: **54.0** @ Source

WATER SUPPLY

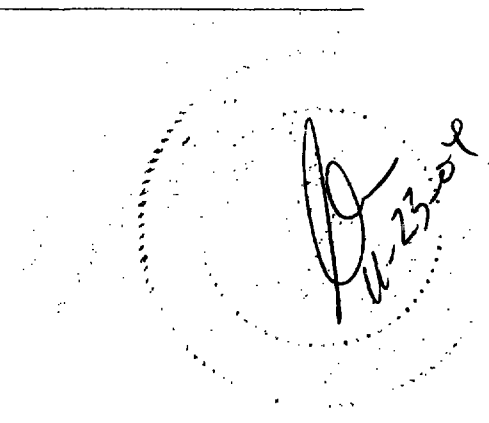
Water Flow Test		Pump Data		Tank or Reservoir	
Date of Test	9/24/2004	Rated Capacity	0 gpm	Capacity	0 gal
Static Pressure	56.0 psi	Rated Pressure	0.0 psi	Elevation	0
Residual Pres	55.0 psi	Elevation	0		
At a Flow of	1060 gpm	Make:		Well	
Elevation	0"	Model:		Proof Flow	0 gpm

Location: REAR OF STORE, HYDRANT P-153

Source of Information: JASON DEAN, IFP

SYSTEM VOLUME 210 Gallons

Notes: KITCHEN AREA



HYDRAULIC CALCULATION DETAILS

QTY DESCRIPTION	HYDRAULIC		FLOW	LOSS	TOTALS
	LENGTH	C ID	gpm	psi	
Hydr Ref W	Required at Hyd Area 2		346		39.8 psi
	Elevation Change 15'0"			6.5	
1 Pipe 4" 10x21 Allied	14'	120 4.260	346	0.4	
1 4" Grvd Butterfly Valve CSC "570"	CHART LOSS		346	0.2	
3 4" Grvd 90 Ell	30'	120 4.026	346	1.1	
Hydr Ref R1	Required at Base of Riser		346		48.0 psi
1 4" Flngd Back Flow Valve AMES "3001	CHART LOSS		346	2.7	
1 4" Flngd 90 Ell	10'	120 4.026	346	0.4	
	Elevation Change 6'0"			2.6	
1 Pipe 6" DIx18 PC 350	40'	140 6.275	346	0.1	
1 6" MJ 90 Ell	14'	120 6.065	346	0.1	
1 6" Flngd Gate Valve	3'	120 6.065	346	0.0	
1 6" MJ Tee	30'	120 6.065	346	0.2	
	Fixed Flow Outside Hose Allow.		250 gpm		
Hydr Ref R2	Required at Source		596		54.0 psi
Water Source 56.0 psi static, 55.0 psi residual @ 1060 gpm			596 gpm		55.7 psi
SAFETY PRESSURE					1.6 psi

Available Pressure of 55.7 psi Exceeds Required Pressure of 54.0 psi
This is a safety margin of 1.6 psi or 3 % of Supply

Maximum Water Velocity is 15.7 fps

Job

CHUCK-E-CHEESE
3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474
Remote Area: 2

Water

Static Pressure: 56.0 psi
Residual Pressure: 55.0 psi
Flow: 1060 gpm
Date/Loc: 9/24/2004 REAR OF ST

Required

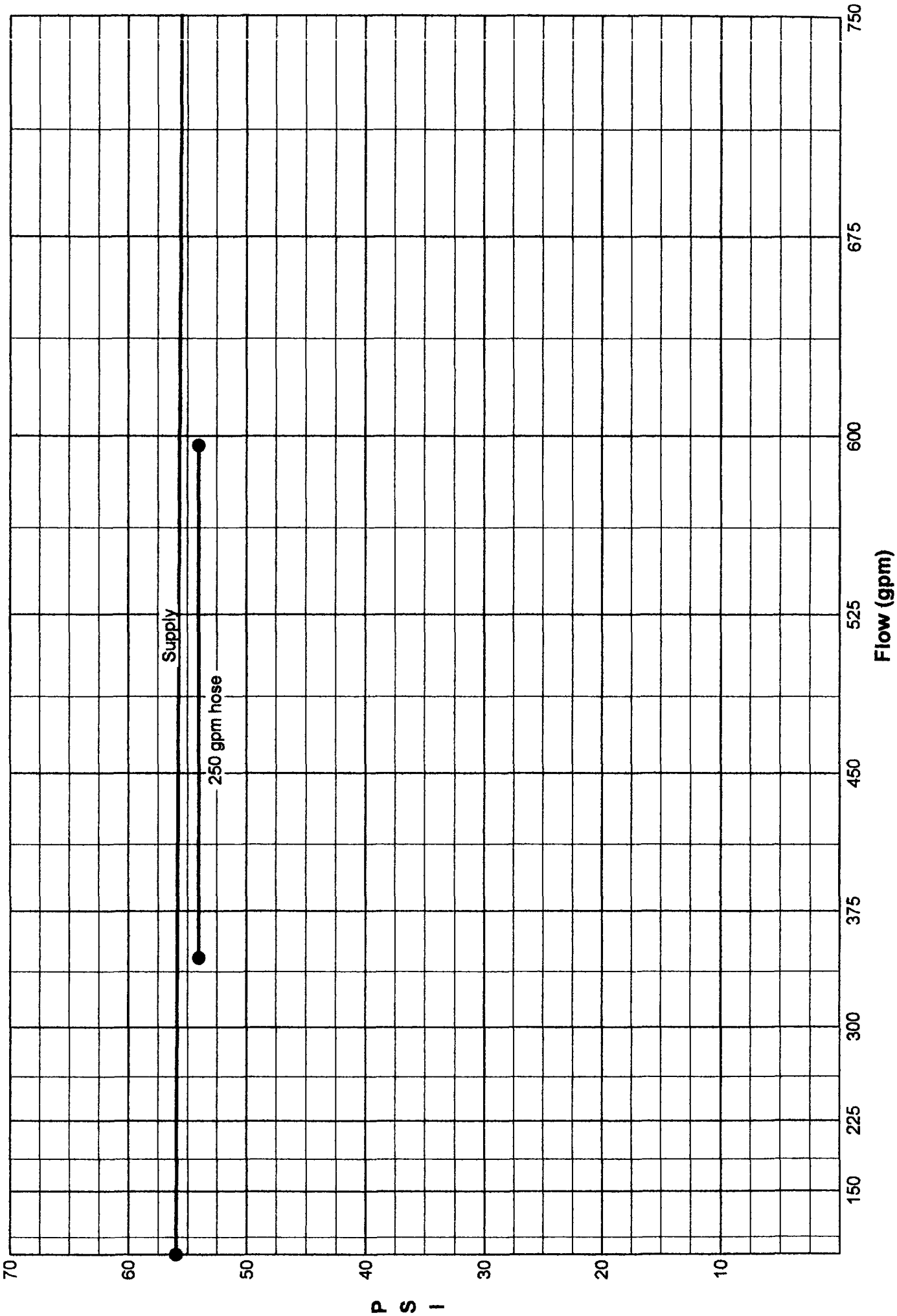
Pressure: 54.0 psi
Total Flow: 596 gpm
Safety Pressure: 1.6 psi

Hose Allowance

Inside: 0 gpm
Outside: 250 gpm

Drawn By

SprinkCAD
Tyco Fire Products
(800)495-5541



LEGEND

HYD REF Hydraulic reference. Refer to accompanying flow diagram.
K FACTOR Flow factor for open head or path where $\text{Flow (gpm)} = K \times \sqrt{P}$
SIZE Nominal size of pipe.
ID Actual internal diameter of pipe
C Hazen Williams pipe roughness factor
TYPE Type or schedule of pipe
FITS number of fittings as follows:
90 - 90 deg Ell 45 - 45 deg Ell T - Tee LT - Long Turn 90 Ell
SPEC - Fitting other than above or fitting with hydraulic
equivalent length specified by manufacturer.
Pt Total pressure (psi) at fitting
Pf Friction loss (psi) to fitting
where $P_f = 1 \times 4.52 \times (Q/C)^{1.85} / ID^{4.87}$
Pe Pressure due to change in elevation
where $P_e = 0.433 \times \text{change in elevation}$
Pv Velocity pressure (psi)
where $P_v = 0.001123 \times Q^2 / ID^4$
Pn Normal pressure (psi)
where $P_n = P_t - P_v$
Pdrop Pressure loss in pipe rise or drop to an open head.
Phead Pressure at an open head.
ELEV elevation from branch tee to open head.
PIPE pipe length from branch tee to open head.
FITS fitting equivalent length from branch tee to open head.

NOTES:

- Pressures are balanced to 0.001 gpm. Pressures are listed to 0.01 psi. Addition may vary by 0.01 psi due to accumulation of round off.
- Calculations conform to NFPA 13 edition.
- Velocity Pressures are not considered in these Calculations
- Path #1 is from the most remote head back to the water source.
- Later Paths are from the next most remote head back to previously defined paths

HYDRAULIC DESIGN INFORMATION SHEETJob Name: **CHUCK-E-CHEESE**Location: 3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474Drawing Date: **11/22/2004**

Remote Area Number: 3

Contractor: **INTERNATIONAL FIRE PROTECTION**

Telephone:863-577-0486

3511 CENTURY BLVD

SUITE 101

LAKELAND, FLORIDA 33811

Designer: MBH

Calculated By:SprinkCAD

www.sprinkcad.com

451 N. Cannon Ave.

Lansdale, PA 19446

Construction: NON-COMBUSTIBLE

Occupancy:O.H. GROUP 1

Reviewing Authorities:CITY OF ORMOND BCH

SYSTEM DESIGN

Code:NFPA 13

Hazard:O.H. 1

System Type:WET

Area of Sprinkler Operation 1500 sq ft | Sprinkler or Nozzle

Density (gpm/sq ft) 0.150 | Make: RELIABL

Area per Sprinkler 130 sq ft | Model: F1FR

Hose Allowance Inside 0 gpm | K-Factor: 5.60

Hose Allowance Outside 250 gpm | Temperature Rating: 200

CALCULATION SUMMARY 16 Flowing Outlets

gpm Required: **638.4** psi Required: **48.6** @ Source

WATER SUPPLY

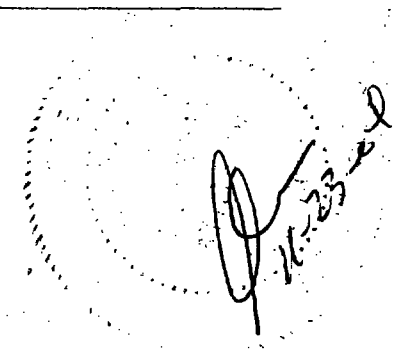
Water Flow Test		Pump Data		Tank or Reservoir	
Date of Test	9/24/2004	Rated Capacity	0 gpm	Capacity	0 gal
Static Pressure	56.0 psi	Rated Pressure	0.0 psi	Elevation	0
Residual Pres	55.0 psi	Elevation	0		
At a Flow of	1060 gpm	Make:		Well	
Elevation	0"	Model:		Proof Flow	0 gpm

Location: REAR OF STORE, HYDRANT P-153

Source of Information: JASON DEAN, IFP

SYSTEM VOLUME 210 Gallons

Notes: STORAGE AREA



HYDRAULIC CALCULATION DETAILS

QTY DESCRIPTION	HYDRAULIC		FLOW	LOSS	TOTALS
	LENGTH	C ID	gpm	psi	
Hydr Ref W	Required at Hyd Area 3		388		33.4 psi
	Elevation Change 15'0"			6.5	
1 Pipe 4" 10x21 Allied	14'	120 4.260	388	0.5	
1 4" Grvd Butterfly Valve CSC "570"	CHART LOSS		388	0.2	
3 4" Grvd 90 Ell	30'	120 4.026	388	1.4	
Hydr Ref R1	Required at Base of Riser		388		42.0 psi
1 4" Flngd Back Flow Valve AMES "3001	CHART LOSS		388	3.0	
1 4" Flngd 90 Ell	10'	120 4.026	388	0.5	
	Elevation Change 6'0"			2.6	
1 Pipe 6" DIx18 PC 350	40'	140 6.275	388	0.2	
1 6" MJ 90 Ell	14'	120 6.065	388	0.1	
1 6" Flngd Gate Valve	3'	120 6.065	388	0.0	
1 6" MJ Tee	30'	120 6.065	388	0.2	
	Fixed Flow Outside Hose Allow.		250 gpm		
Hydr Ref R2	Required at Source		638		48.6 psi
Water Source 56.0 psi static, 55.0 psi residual @ 1060 gpm			638 gpm		55.6 psi
					=====
SAFETY PRESSURE					7.1 psi

Available Pressure of 55.6 psi Exceeds Required Pressure of 48.6 psi
This is a safety margin of 7.1 psi or 13 % of Supply

Maximum Water Velocity is 18.9 fps

Job

CHUCK-E-CHEESE
3500 SW COLLEGE ROAD, UNIT 200
OCALA, FLORIDA, 34474
Remote Area: 3

Water

Static Pressure: 56.0 psi
Residual Pressure: 55.0 psi
Flow: 1060 gpm
Date/Loc: 9/24/2004 REAR OF ST

Required

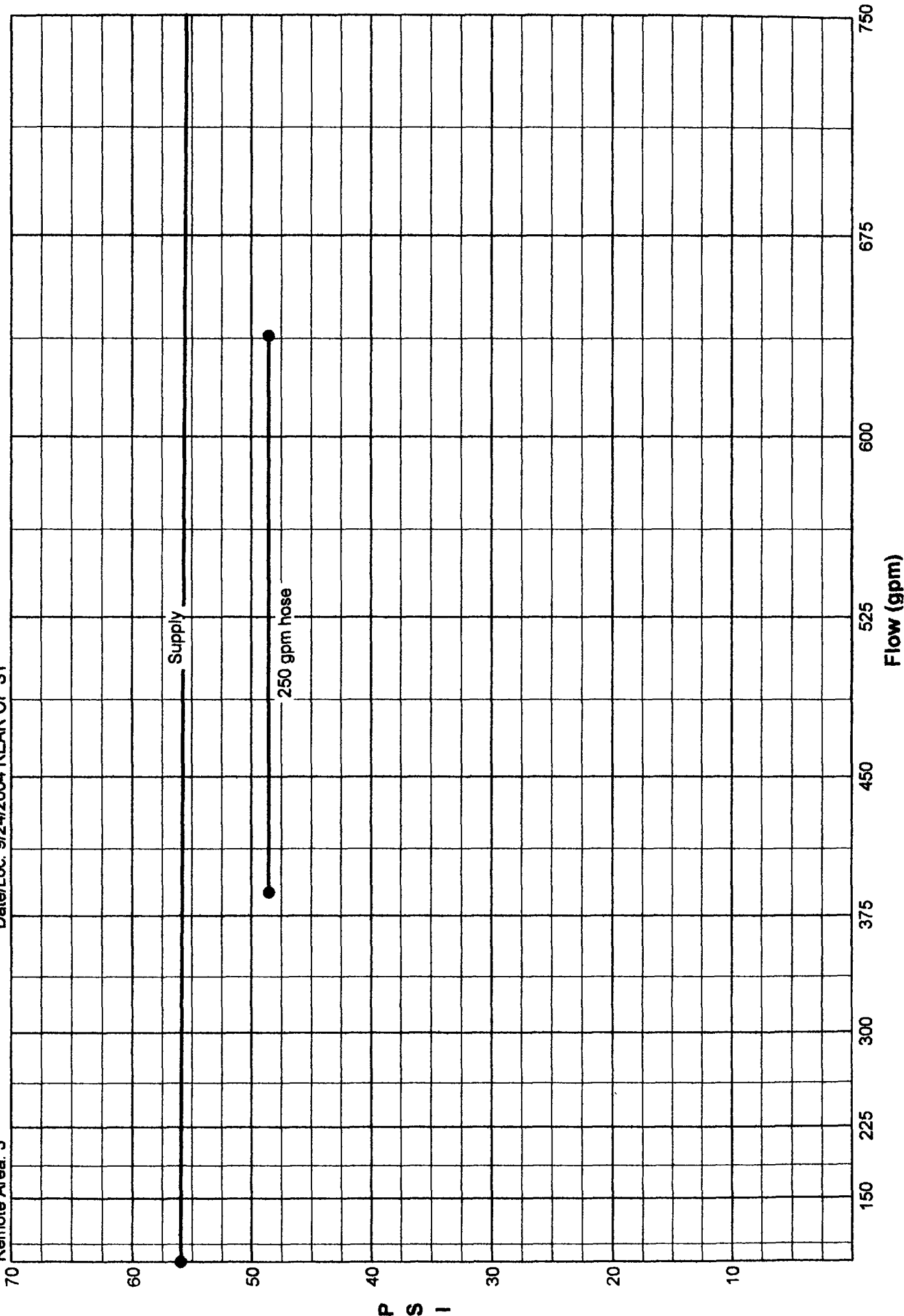
Pressure:
Total Flow:
Safety Pressure:

Hose Allowance

Inside: 0 gpm
Outside: 250 gpm

Drawn By

SprinkCAD
Tyco Fire Products
(800)495-5541



LEGEND

HYD REF Hydraulic reference. Refer to accompanying flow diagram.
 K FACTOR Flow factor for open head or path where Flow (gpm) = $K \times \sqrt{P}$
 SIZE Nominal size of pipe.
 ID Actual internal diameter of pipe
 C Hazen Williams pipe roughness factor
 TYPE Type or schedule of pipe
 # FITS number of fittings as follows:
 90 - 90 deg Ell 45 - 45 deg Ell T - Tee LT - Long Turn 90 Ell
 SPEC - Fitting other than above or fitting with hydraulic
 equivalent length specified by manufacturer.
 Pt Total pressure (psi) at fitting
 Pf Friction loss (psi) to fitting
 where $P_f = 1 \times 4.52 \times (Q/C)^{1.85} / ID^{4.87}$
 Pe Pressure due to change in elevation
 where $P_e = 0.433 \times \text{change in elevation}$
 Pv Velocity pressure (psi)
 where $P_v = 0.001123 \times Q^2 / ID^4$
 Pn Normal pressure (psi)
 where $P_n = P_t - P_v$
 Pdrop Pressure loss in pipe rise or drop to an open head.
 Phead Pressure at an open head.
 ELEV elevation from branch tee to open head.
 PIPE pipe length from branch tee to open head.
 FITS fitting equivalent length from branch tee to open head.

NOTES:

- Pressures are balanced to 0.001 gpm. Pressures are listed to 0.01 psi. Addition may vary by 0.01 psi due to accumulation of round off.
- Calculations conform to NFPA 13 edition.
- Velocity Pressures are not considered in these Calculations
- Path #1 is from the most remote head back to the water source.
- Later Paths are from the next most remote head back to previously defined paths

___BLDG. ___ELECTRICAL ___FIRE DEPT. ___IND. WASTE

BUILDING PLAN REVIEW WORKSHEET

BUILDING PERMIT # BLD04-2169 NEW FIRE SPRINKLER SYSTEM

DATE: 11/24/2004

PROJECT TITLE: CHUCK E CHEESE #780/INTERIOR RENOVATION

ADDRESS: 3500 SW COL RD #200

COMPLEX:

CONTACT: INTERNATIONAL FIRE PROTECTION TEL: 8635770485

ENGINEER : <undefined value> TEL: <undefined value>

ARCH/DESIGNER: <undefined value> TEL: <undefined value>

CONTRACTOR: INTERNATIONAL FIRE PROTECTION TEL: 8635770485

PARCEL NO: 23728-000-00 DISTRICT:

THRESHOLD BUILDING YES___NO___

UNDERGROUND UTILITIES YES___NO___

SITE PLAN YES___NO___

3 SETS SEALED PLANS YES___NO___

2 SETS FLORIDA ENERGY YES___NO___

SEPTIC TANK PERMIT REQUIRED - YES___NO___ RECEIVED- YES___NO___

SDC YES___NO___

FIRE DEPARTMENT - YES___NO___

ELECTRICAL - YES___NO___

PLUMBING-YES___NO___ HVAC-YES___NO___ HANDICAP REQUIREMENTS: YES___NO___

FIRE SPRINKLER YES_X_ NO___ COMPANY_

BUILDING TYPE_____ SQUARE FOOTAGE 8726

ANY MODIFICATION: YES___NO___

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

minty
863.577.0485

863.577.0485

Dana M. McLean
My Commission DD282408
Expires August 12, 2005

Fire Department Fee Worksheet			
Building Permit #		RD 04-2169	
Name of Business		CHUCK E CHOOSE	
Type		Cost	mark cost items here
1	Fire Sprinkler System		
2	Site Plan Review - per phase	\$ 25.00	
3	New Construction/Renovations/Additions	0.05 per square foot	
4	Fire Sprinkler/Standpipe up to 10,000 square feet - Per system per building	\$ 75.00	X
5	Fire Sprinkler/Standpipe over 10,000 square feet	10.00 per 1000sf over 10000sf	
6	Fire Alarm Systems, up to 10000 square feet - per system per building	\$ 75.00	
7	Fire Alarm Systems, over 10000 square feet	10.00 per 1000sf over 10000sf	
8	Smoke Evacuation Systems up to 10000 square feet	\$ 75.00	
9	Smoke Evacuation Systems over 10000 square feet	10.00 per 1000sf over 10000sf	
10	Fire Supression Systems (Hoods or booths) - per system	\$ 25.00	
11	Ventilation Systems (Hoods or Paint Booths)	\$ 25.00	
12	Emergency Generator Systems - per system	\$ 25.00	
13	Fire Pump - per pump	\$ 35.00	
14	Fireworks: (public or private displays) - per display	\$ 50.00	
15	Tents (Sales, carnivals, and revivals) - per site	\$ 35.00	
16	Amusement Parks (fairs, carnivals, and festivals) - per site	\$ 100.00	
17	Burn Permits, (rural/commercial/open burning)	\$ 50.00	
18	Burn Permits (ceremonial/campfires)	NO CHARGE	
Total:			
Note: Sprinkler systems, alarm systems and smoke evacuation systems are assesed as follows: Buildings less than 10,000 square feet = \$75.00, Buildings greater than 10,000sf = \$75.00 + \$10.00 per 1000sf over 10,000 square feet. New Construction: .05 multiplied by the total square footage.			

___BLDG. ___ ELECTRICAL ___ FIRE DEPT. ___ IND. WASTE

BUILDING PLAN REVIEW WORKSHEET

BUILDING PERMIT # BLD04-2169 NEW FIRE SPRINKLER SYSTEM

DATE: 11/24/2004

PROJECT TITLE: CHUCK E CHEESE #780/INTERIOR RENOVATION

ADDRESS: 3500 SW COL RD #200

COMPLEX:

CONTACT: INTERNATIONAL FIRE PROTECTION TEL: 8635770485

ENGINEER : <undefined value> TEL: <undefined value>

ARCH./DESIGNER: <undefined value> TEL: <undefined value>

CONTRACTOR: INTERNATIONAL FIRE PROTECTION TEL: 8635770485

PARCEL NO: 23728-000-00 DISTRICT:

THRESHOLD BUILDING YES _____ NO _____

UNDERGROUND UTILITIES YES _____ NO _____

SITE PLAN YES _____ NO _____

3 SETS SEALED PLANS YES _____ NO _____

2 SETS FLORIDA ENERGY YES _____ NO _____

SEPTIC TANK PERMIT REQUIRED - YES _____ NO _____ RECEIVED- YES _____ NO _____

SDC YES _____ NO _____

FIRE DEPARTMENT - YES _____ NO _____

ELECTRICAL - YES _____ NO _____

PLUMBING-YES _____ NO _____ HVAC-YES _____ NO _____ HANDICAP REQUIREMENTS: YES _____ NO _____

FIRE SPRINKLER YES X NO _____ COMPANY _____

BUILDING TYPE _____ SQUARE FOOTAGE 8726

ANY MODIFICATION: YES _____ NO _____

BUILDING OCCUPANCY CLASSIFICATION:

NOTES:

REVIEWED
BY CITY OF OCALA
BUILDING ELECTRIC DIVISION

DATE 12-2-04

BY RP

CITY OF OCALA PERMIT APPLICATION

Date: _____

PERMIT TYPE: BLD ☒ ELEC _____ PLM _____ HVAC _____ GAS _____ SITE _____ ALARM _____

Commercial ☒ Residential _____

New _____ Repair _____ Alteration ☒ Addition _____

Master Permit # _____

Parcel #: _____

Site Address: 3500 SKI COLLEGE RD. UNIT 200

Project Name: CHUCK E. CHEESE'S #780

Subdivision _____

Lot _____ Block _____

Contractors Name: PARKWAY CONSTRUCTION City Comp/State Lic #: _____

Square Footage of Project: _____

Estimated Value of Job (excluding lot) \$ _____

Description of Work: Contact Kristie

COMMERCIAL ELECTRIC METERS

OVERHEAD _____ UNDERGROUND _____
AMPS _____ PHASE _____ VOLTAGE _____
OF METERS _____ CHG OF SERVICE _____

ELECTRIC SERVICE SINGLE PHASE OR THREE PHASE
NOT OVER 200 AMPS \$ 3.00 _____
NOT OVER 400 AMPS \$ 4.00 _____
NOT OVER 600 AMPS \$ 6.00 _____
NOT OVER 800 AMPS \$ 8.00 _____
NOT OVER 1000 AMPS \$10.00 _____
FOR EA ADD'L 100 AMP \$ 1.00 _____
EA ADDT'L METER \$ 3.00 _____

FAX PERMITS ONLY

Contractors Signature: _____ Fax #: _____

STATE OF FLORIDA
COUNTY OF MARION

NOTARY SIGNATURE: _____ NOTARY SEAL: _____

C T CHANG & ASSOCIATES, INC.
ARCHITECTURE-PLANNING-DESIGN

1010 WEST EULESS BOULEVARD, #110, EULESS, TX 76040 (817) 354-6010

TRANSMITTAL LETTER

To: David Branam

Date: October 18, 2004

City of Ocala Building

RE: Chuck E. Cheese's #780

151 SE Osceola Avenue

Ocala, FL

Ocala, FL 34471

Telephone 352 629 8421

We are shipping you the following items via:

U. S. Mail_____

Federal Express_____

Courier Service_____

Other _____

QTY	SET	SHEET	DESCRIPTION OF CONTENTS	SEAL
	3		CONSTRUCTION DOCUMENTS FOR YOUR REVIEW	yes
1			Application	
1			Application Fee (\$1088.00)	
PERMIT SET				

XXX For your Use As Requested XXX For Review and Comment

Remarks: Energy Calcs to follow if necessary.

cc: _____

From: Jan/C. T. Chang



C T CHANG & ASSOCIATES, INC.

ARCHITECTURE-PLANNING-DESIGN

1010 WEST EULESS BOULEVARD, SUITE 110, EULESS, TX 76040 (817) 354-6010

January 28, 2005

Mr. Adolfo Perez-Llana
City Of Ocala Permit Department
151 SE Osceola Ave
Ocala, FL 34471

**RE: Chuck E. Cheese's #780
3500 SW College Road
Ocala, FL 34474**

Dear Sir:

At the request of Juan Broussard, CEC Entertainment, we are forwarding an updated E3.1 for your Archive set. This revision reflects modifications made in the field to adapt to existing conditions, and agreed to between the Electrical Inspector and the Electrical Contractor.

In addition, the modification to the Main Distribution panel reflected on E3.1 has been reviewed and approved by the Engineer of Record.

If we may be of additional assistance, please advise.

Sincerely,

Dana L. Wenzel
Project Manager

Attached: E3.1(rev 6: 1/27/05 as built)

Cc: Juan Broussard/CEC
Steve Young/Parkway construction
file

1010 WEST EULESS BOULEVARD, #110, EULESS, TX 76040 (817) 354-6010

TRANSMITTAL LETTER

To: Adolfo Perez-Llana

Date: January 31, 2005

City of Ocala, FL

RE: Chuck E. Cheese's #780

151 SE Osceola Avenue

Ocala, FL

Ocala, FL 34471

We are shipping you the following items via:

U. S. Mail _____ **Federal Express** 7915 3640 8240 **Courier Service** _____

Other _____

[illegible]

xxx For your Use _____ As Requested _____ For Review and Comment

Remarks: _____

cc: _____

From: Jan/C. T. Chang

Model F3QR Dry Pendent Concealed Sprinkler

"A" Dim.	3 1/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments
----------	---

CCP Cover Plate⁽¹⁾ Finishes⁽²⁾

Standard Finishes	Special Application Finishes
Chrome Plated White	Bright Brass Plated Black Paint Black Paint Off White Satin Chrome

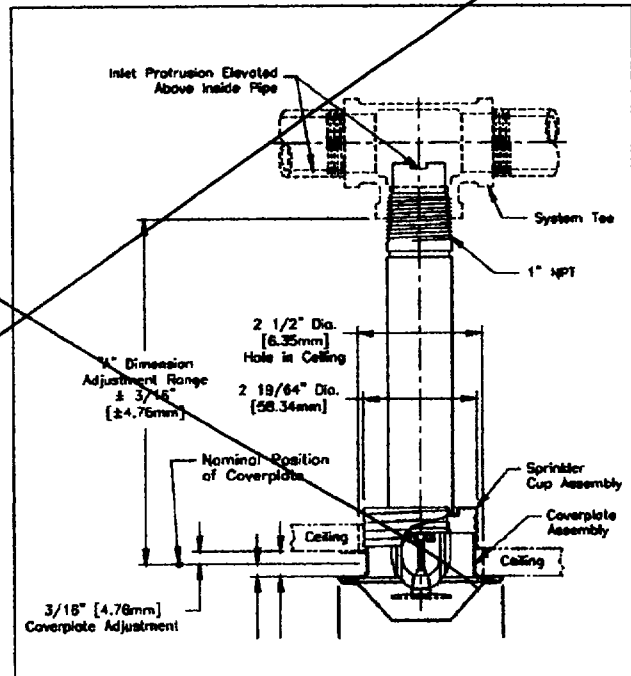
⁽¹⁾ Utilizes the 1/2" cover plate with 3/8" total adjustment.

⁽²⁾ Other finishes and colors are available on special order. Consult factory for details.

Standard Temperature Ratings

Classification	Sprinkler Temperature Rating	Cover Plate Temp. Rating	Max. Ambient Temp.
Ordinary	135°F (57°C)	135°F (57°C)	100°F (38°C)
Ordinary	155°F (68°C)	135°F (57°C)	100°F (38°C)
Intermediate	200°F (93°C)	165°F (74°C)	150°F (66°C)
High*	286°F (141°C)	165°F (74°C)	150°F (66°C)

* Listed and Certified only by CULus.



Note: Do not install the Model F3QR Dry Pendent Concealed Sprinkler in ceilings which have positive pressure in the space above.

Sprinkler Installation Wrench:

Model G3 R/C Sprinkler Wrench

Sprinkler Identification Number (SIN): R5714

Model F3QR Dry Horizontal Sidewall Sprinkler

"A" Dim.	2" to 48" (51mm to 1219mm) in 1/4" (6mm) increments
----------	---

Finishes⁽¹⁾

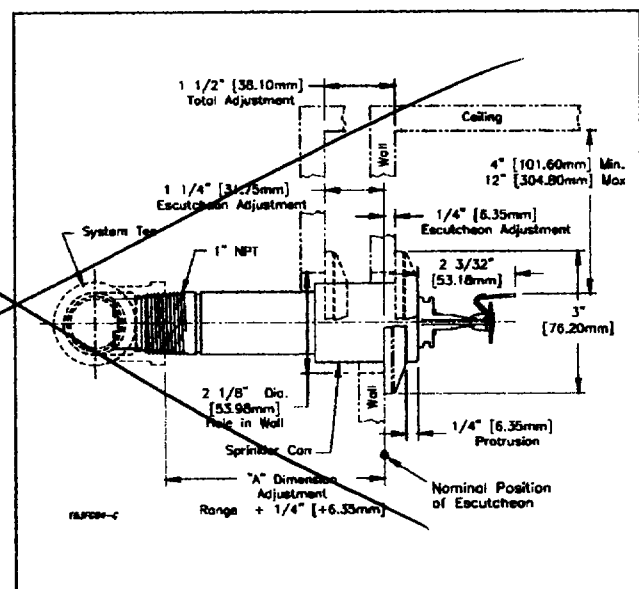
Sprinkler	Escutcheon
Bronze	Brass
Chrome Plated	Chrome Plated
White Painted ⁽²⁾	White

⁽¹⁾ Other finishes and colors are available on special order. Consult factory for details.

⁽²⁾ White painted sprinklers will have chrome plated can.

Standard Temperature Ratings

Classification	Sprinkler Temperature Rating	Max. Ambient Temp.	Bulb Color
Ordinary	135°F (57°C)	100°F (38°C)	Orange
Ordinary	155°F (68°C)	100°F (38°C)	Red
Intermediate	200°F (93°C)	150°F (66°C)	Green
High	286°F (141°C)	225°F (107°C)	Blue



Note: The sprinkler Can protrudes 1/4" when escutcheon is in nominal position. Escutcheon adjustment provides +1/4" (+6mm) to -1/4" (-32mm) "A" dimension adjustment range.

Sprinkler Installation Wrench:

Model G3 Sprinkler Wrench

Sprinkler Identification Number (SIN): R5734

Model F3QR Dry Horizontal Recessed Sidewall Sprinkler

"A" Dim. 3 1/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments

Finishes⁽¹⁾

Sprinkler	Escutcheon
Bronze	Brass
Chrome Plated	Chrome Plated
White Painted	White

⁽¹⁾ Other finishes and colors are available on special order. Consult factory for details. Cup remains unfinished. *See page 2"

Standard Temperature Ratings

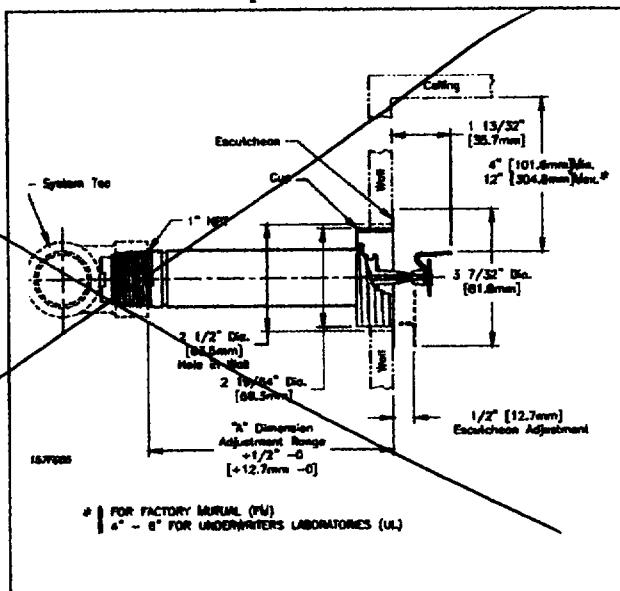
Classification	Sprinkler Temperature Rating	Max. Ambient Temp.	Bulb Color
Ordinary	135°F (57°C)	100°F (38°C)	Orange
Ordinary	155°F (68°C)	100°F (38°C)	Red
Intermediate	200°F (93°C)	150°F (66°C)	Green
High*	286°F (141°C)	225°F (107°C)	Blue

* Listed and Certified only by cULus.

Sprinkler Installation Wrench:

Model G3 R/C Sprinkler Wrench

Sprinkler Identification Number (SIN): R5734



Notes: Do not install the Model F3QR Dry Horizontal Recessed Sidewall Sprinkler in walls which have positive pressure in their side space.

- Listed by cULus for Quick Response. Approved by FM for Standard Response.
- Recessed Horizontal sidewall sprinklers are listed with cULus for installation of min. 4" (100mm) - to - max. 6" (150mm) below ceiling and approved by FM for installation of min. 4" (100mm) - to - max. 12" (300mm) below ceiling.

Technical Data:

Orifice Size: 1/2" (15mm)
Thread Size: 1" NPT per ANSI B2.1
Working Pressure: 175 psi (12 bar)
Nominal K Factor - US / (Metric): 5.6 / (80)

Product Description

Reliable Model F3QR Dry Sprinklers are quick response sprinklers utilizing a durable 3mm frangible glass bulb. This quick response enables these sprinklers to apply water to a fire much sooner than standard response sprinklers of the similar temperature rating.

Model F3QR Dry Sprinklers are intended for use in enclosed dry and preaction systems and in enclosed areas subjected to freezing temperatures, such as freezers and unheated portions inside buildings.

Environments wherein dry sprinklers are employed can be corrosive. For this reason, Model F3 Sprinklers have a special wax fillet placed in the gap between the cup that supports the bulb and the wrenching boss. This wax will not interfere with the operation of the sprinkler, and it prevents contaminants from entering the internal portion of the drop nipple. The wax must not be removed.

Operation

The glass bulb consists of an accurately controlled amount of special fluid hermetically sealed inside a precisely manufactured glass capsule. This glass bulb is specially constructed to provide fast thermal response. When the temperature increases sufficiently, due to a fire, the bulb shatters allowing operating parts to clear the waterway. This enables the inlet seal to release air or water and subsequently, cause water flow over the deflector in a uniform spray pattern, controlling or extinguishing the fire.

Ordering Information

Specify:

1. Sprinkler Type (select one):
(a) Model F3QR Dry Pendent
(b) Model F3QR Dry Recessed Pendent
(c) Model F3QR Dry Concealed Pendent
(d) Model F3QR Dry Horizontal Sidewall
(e) Model F3QR Dry Recessed Horizontal Sidewall
2. Sprinkler Temperature Rating.
3. Sprinkler Finish.
4. Cover Plate/Escutcheon Finish.
5. Length:
"A" Dimension (face of tee to face of ceiling or wall) in 1/4" (6mm) increments.

Note:

1. The "A" dimension is based on a nominally gauged pipe thread "make-up" of 0.600" (15mm) per ANSI B2.1 [7 1/2 threads approximately].
2. All platings and paintings are decorative and intended for interior use.

General Installation Instructions

In steel pipe, the Model F3QR Dry Sprinklers must be installed only in standard (ANSI B 16.3 class 150 and ANSI B 16.4 class 125) pipe tees even at branch line ends. For these and CPVC fittings, the dry sprinkler should be installed into a fitting and confirmed to have appropriate protrusion into the fitting in accordance with the diagrams. Dry sprinklers must not be installed into elbows and into pipe couplings located on drop nipples to the sprinklers. The "A" dimension of a dry sprinkler, which extends into freezers from wet pipe systems, should be selected to provide at least 14" (356mm) between the freezer's outside wall or ceiling and the wet pipe line.

1. Cut the specified size hole (see illustrations) for the sprinkler in the ceiling directly in line with the tee.
2. Apply pipe joint compound to the 1" (25mm) pipe threads and install sprinkler using the Model G3 or G3 R/C Sprinkler Wrench as specified.
3. Install the push-on / thread-off escutcheon or cover plate.

Note: Installation of the Model F3QR Sprinklers in copper pipe systems is not recommended, as this may reduce the life expectancy of the sprinklers.

Model F3QR Concealed and Recessed Installation Instructions

- The Model G3 R/C wrench (Fig. 1) is designed to locate on the wrenching pads of the recessed sprinkler while centering in the cup. A standard $\frac{1}{2}$ " drive ratchet may be used to drive this wrench. Figures 1 and 2 show sequentially the insertion of the wrench. First the wrench, with its jaws above the sprinkler deflector, is moved laterally until centered with the cup. Then raise the wrench inside of the cup until its jaws engage the sprinkler's square wrenching pads (Fig. 3). To remove the wrench, follow this procedure in reverse order. Care should be taken to avoid striking the deflector, with the wrench.
- Model G3 Wrench (Fig. 4) is used for installation of Pendent and Horizontal Sidewall sprinklers.

Maintenance

The Model F3QR Quick Response Dry Sprinklers should be inspected quarterly and the sprinkler system maintained in accordance with NFPA 25. Do not remove the factory applied thermally sensitive wax fillet between the bulb supporting cup and the wrenching boss. Do not replace this wax with a substitute substance. An Alternate substance may interfere with proper operation of the sprinkler. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gently vacuuming. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

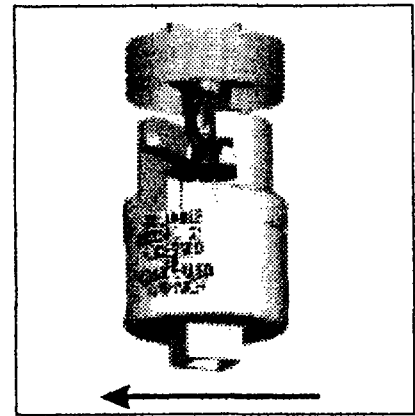


Fig. 1 - G3 R/C Wrench

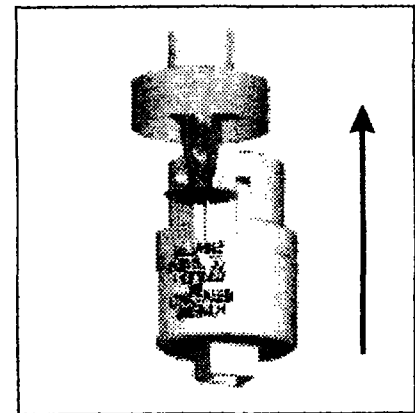


Fig. 2 - G3 R/C Wrench

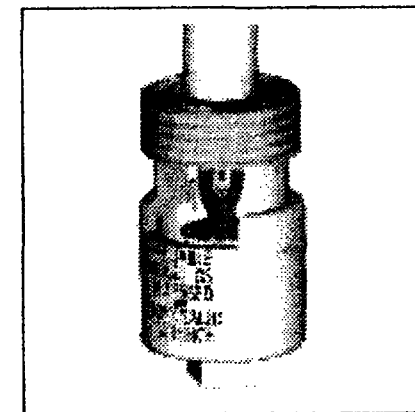


Fig. 3 - G3 R/C Wrench

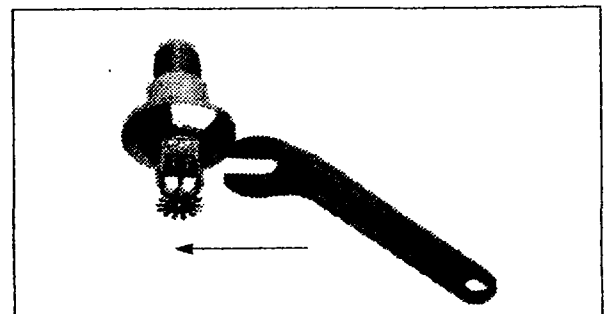


Fig. 4 - G3 Wrench

Tyco Fire Products — www.tyco-grooved.com
451 North Cannon Avenue, Lansdale, Pennsylvania 19446 — USA
Customer Service/Sales: Tel: (215) 362-0700 / Fax: (215) 362-5385
Technical Services: Tel: (800) 381-9312 / Fax: (800) 791-5500



Fire Protection Submittal Sheet

Listing and Approval Information

OR EQUAL



Model F1FR Recessed Quick Response Extended Coverage Horizontal Sidewall Sprinkler

Deflector: EC-8

Installation Wrench: Model GFR1 Sprinkler Wrench

Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

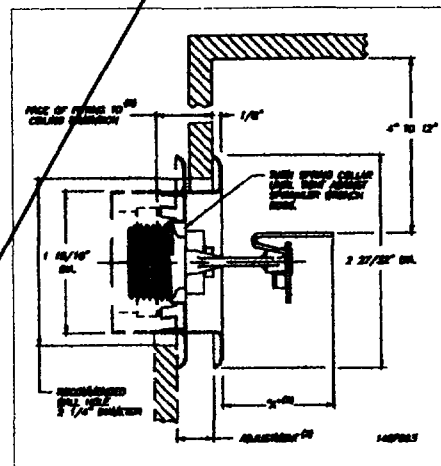
Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Approval ⁽²⁾ Organizations	Temperature Rating ⁽¹⁾	Sprinkler Identification Number (SIN)
		US	Metric				
1/2 (15mm)	1/2" NPT (R½)	6.6	80	2.8" (71.1mm)	1, 2, 3, 4	135°F (57°C) 155°F (68°C) 175°F (79°C)	R4865

⁽¹⁾ FM Approval of recessed sprinkler - 135°F (57°C) only

⁽²⁾ Refer to escutcheon data table for approvals and dimensions.

COVERAGE AREA					
Flow Rate gpm (L/min)		Pressure psi (bar)		Maximum Coverage Area Width x Length ft. x ft. (m x m)	Deflector to Ceiling Dimension Min. - Max. Inches (mm)
UL	FM	UL	FM		
26 (98.4)	26 (98.4)	21.4 (1.5)	21.4 (1.5)	16 x 16 (4.9 x 4.9)	4 - 12 (102 - 305)
29 (109.8)	30 (113.6)	26.6 (1.8)	26.6 (2.0)	16 x 18 (4.9 x 5.5)	4 - 12 (102 - 305)
32 (121.1)	33 (125.0)	32.4 (2.2)	34.5 (2.4)	16 x 20 (4.9 x 6.0)	4 - 12 (102 - 305)



Model F1FR Quick Response Extended Coverage Horizontal Sidewall Sprinkler

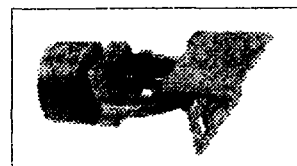
Deflector: EC-9

Installation Wrench: Model D Sprinkler Wrench

Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Approval ⁽²⁾ Organizations	Temperature Rating	Sprinkler Identification Number (SIN)
		US	Metric				
1/32 (20mm)	3/4" NPT (R¾)	8.0	115	2.85 (72.4mm)	1, 2, 3, 4	135°F (57°C) 155°F (68°C) 175°F (78°C)	R4862



Model F1FR Recessed Quick Response Extended Coverage Horizontal Sidewall Sprinkler

Deflector: EC-9

Installation Wrench: Model GFR1 Sprinkler Wrench

Approval Type: Quick Response Extended Coverage-Light Hazard Occupancy

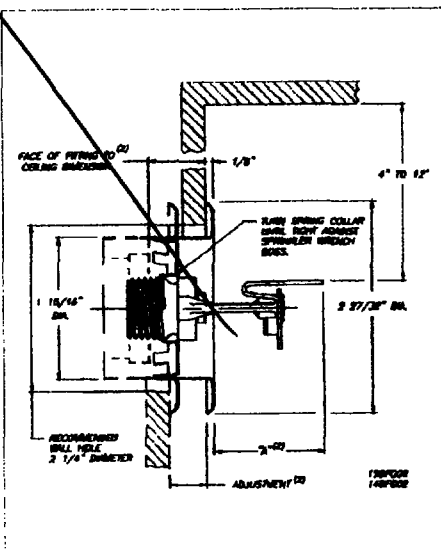
Installation Data:

Nominal Orifice	Thread Size	"K" Factor		Sprinkler Length	Approval ⁽²⁾ Organizations	Temperature Rating ⁽¹⁾	Sprinkler Identification Number (SIN)
		US	Metric				
1/32 (20mm)	3/4" NPT (R¾)	8.0	115	2.85 (72.4mm)	1, 2, 3, 4	135°F (57°C) 155°F (68°C) 175°F (78°C)	R4862

⁽¹⁾ FM Approval of recessed sprinkler - 135°F only.

⁽²⁾ Refer to escutcheon data table for approvals and dimensions.

COVERAGE AREA					
Flow Rate gpm (L/min)		Pressure, psi (bar)		Maximum Coverage Area Width x Length ft. x ft. (m x m)	Deflector to Ceiling Dimension Min. - Max. Inches (mm)
UL	FM	UL	FM		
26 (98.4)	-	10.6 (0.7)	-	16 x 16 (4.9 x 4.9)	12 (305)
29 (109.8)	32 (121.1)	13.1 (0.9)	16.0 (1.1)	16 x 16 (4.9 x 4.9)	4 - 12 (102 - 305)
29 (109.8)	36 (136.3)	13.1 (0.9)	20.2 (1.4)	16 x 18 (4.9 x 5.5)	4 - 12 (102 - 305)
32 (121.1)	40 (151.4)	16.0 (1.1)	25.0 (1.7)	16 x 20 (4.9 x 6.0)	4 - 12 (102 - 305)
36 (136.3)	44 (166.6)	20.2 (1.4)	30.2 (2.1)	16 x 22 (4.9 x 6.7)	4 - 12 (102 - 305)
39 (147.6)	48 (181.7)	23.8 (1.6)	36.0 (2.5)	16 x 24 (4.9 x 7.3)	4 - 12 (102 - 305)



Model F1FR & F1FR Recessed Quick Response Extended Coverage Sprinklers

Quick response sprinkler are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.

The Model F1FR Recessed QREC Sprinklers are to be installed as shown. The Model F1 or F2 Escutcheons illustrated are the only recessed escutcheons to be used with the Model F1FR Sprinklers. The use of any other recessed escutcheon will void all approvals and negate all warranties.

When installing Model F1FR QREC Sprinklers, use the Model D Sprinkler Wrench. When installing Model F1FR QREC Recessed Sidewall Sprinklers, use the Model GFR1 Sprinkler Wrench. Use the Model RC1 Wrench for installing F1FR QREC Recessed Pendent Sprinklers. Any other type of wrench may damage these sprinklers.

Maintenance

The Models F1FR QREC and F1FR QREC Recessed Sprinklers should be inspected quarterly and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Temperature Ratings

Classification	Sprinkler Rating		Maximum Ambient Temp.		Bulb Color
	°F	°C	°F	°C	
Ordinary	135	57	100	38	Orange
Ordinary	155	68	100	38	Red
Intermediate	175	79	150	66	Yellow

Sprinkler Types

Extended Coverage Pendent

Extended Coverage Sidewall

- EC-8 HSW Deflector
- EC-9 HSW Deflector

Recessed Extended Coverage Pendent

Recessed Extended Coverage Sidewall

- EC-8 HSW Deflector
- EC-9 HSW Deflector

Finishes^a

Standard Finishes	
Sprinkler ^a	Escutcheon
Bronze Chrome Plated White Polyester Coated	Brass Chrome Plated White Painted
Special Application Finishes	
Sprinkler ^a	Escutcheon
Bright Brass Black Plating Black Paint Off White Satin Chrome	Bright Brass Black Plating Black Paint Off White Satin Chrome

⁽¹⁾ Other colors and finishes are available on special order. Consult factory for details.

⁽²⁾ FM Approval limited to bronze, bright and satin chrome plated, and polyester coated only.

Escutcheon Data

Escutcheon Model	Approvals ⁽¹⁾	Adjustment	"A" Dimension	Face of Fitting to Ceiling or Wall Dimension
F1	1, 2, 4	3/4" (19mm)	3/4" (19mm) ⁽¹⁾ 1 3/8" (35mm) ⁽²⁾	3/8" (5mm) - 1/2" (24mm)
F2	1, 2, 3, 4	1/2" (13mm)	1" (25mm) ⁽¹⁾ 1 1/8" (40mm) ⁽²⁾	3/8" (5mm) - 1/2" (18mm)

⁽¹⁾ EC Pendent

⁽²⁾ EC HSW

⁽³⁾ NYC MEA 258-93-E, Pendent and Recessed Pendent Only.

Ordering Information

Specify:

1. Sprinkler Model
2. Sprinkler Type
3. Orifice Size
4. Deflector Type
5. Temperature Rating
6. Sprinkler Finish
7. Escutcheon Type
8. Escutcheon Finish (where applicable)

Note: When Model F1FR Recessed sprinklers are ordered, the sprinklers and escutcheons are packaged separately.

The equipment presented in this bulletin is to be installed in accordance with the latest pertinent Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.

Products manufactured and distributed by Reliable have been protecting life and property for over 80 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Reliable®

The Reliable Automatic Sprinkler Co., Inc.

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(914) 668-3470

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Sales Fax

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Internet Address



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Paper

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E.G. Printed in U.S.A. 4/03 P/N 9999970142

Reliable®

Model F1FR Model F1FR Recessed Quick Response Sprinklers

Model F1FR Sprinkler Types

Standard Upright
Standard Pendent
Conventional
Vertical Sidewall
Horizontal Sidewall
– HSW 1 Deflector

Model F1FR Recessed Sprinkler Types

Recessed Pendent
Recessed Horizontal Sidewall
– HSW 1 Deflector

Listings & Approvals

1. Listed by Underwriters Laboratories, Inc. (UL)
2. Listed by Underwriters' Laboratories of Canada (ULC)
3. Certified by FM Approvals
4. Loss Prevention Council (LPC, UK)
5. NYC BS&A No. 587-75-SA
6. Meets MIL-S-901C and MIL-STD 167-1
7. Verband der Schadenversicherer (VdS, Germany)
8. NYC MEA 258-93-E

UL Listing Category

Sprinklers, Automatic & Open
Quick Response Sprinkler

UL Guide Number

VNIV

Product Description

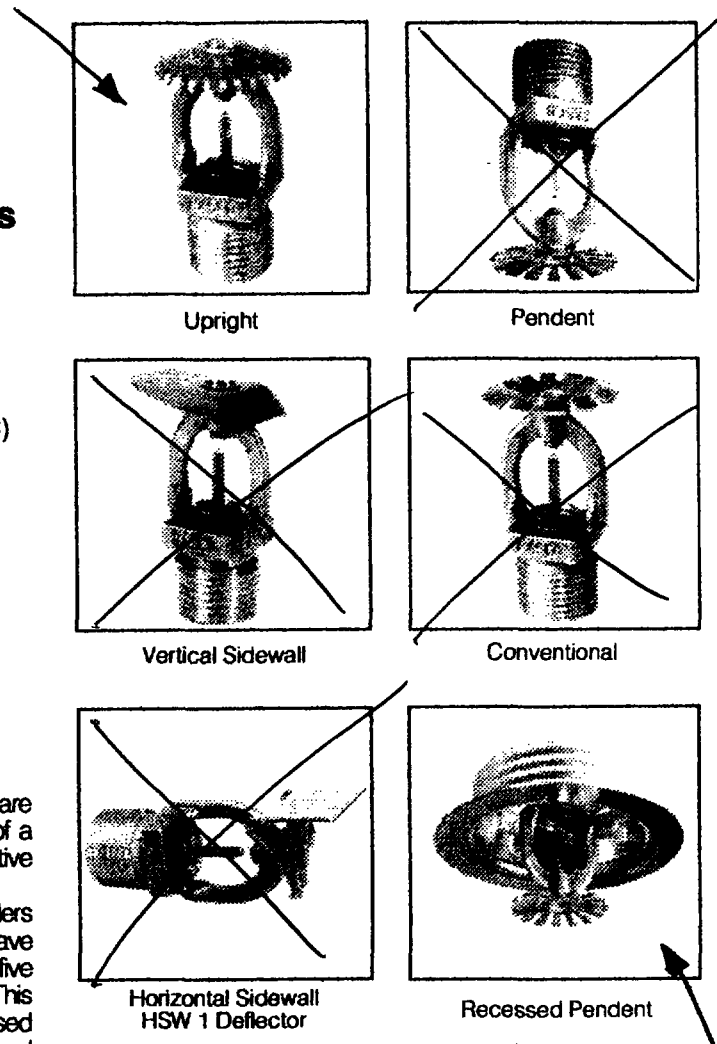
Reliable Models F1FR and F1FR Recessed Sprinklers are quick response sprinklers which combine the durability of a standard sprinkler with the attractive low profile of a decorative sprinkler.

The Models F1FR and F1FR Recessed automatic sprinklers utilize a 3.0 mm frangible glass bulb. These sprinklers have demonstrated response times in laboratory tests which are five to ten times faster than standard response sprinklers. This quick response enables the Model F1FR and F1FR Recessed sprinklers to apply water to a fire much faster than standard sprinklers of the same temperature rating.

The glass bulb consists of an accurately controlled amount of special fluid hermetically sealed inside a precisely manufactured glass capsule. This glass bulb is specially constructed to provide fast thermal response. The balance of parts are made of brass, copper and beryllium nickel.

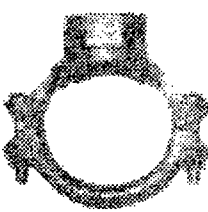
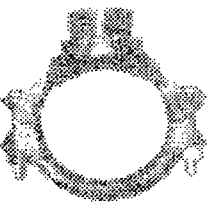
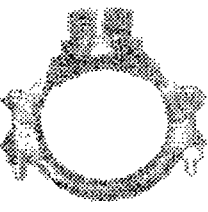
At normal temperatures, the glass bulb contains the fluid in both the liquid and vapor phases. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands, forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing the glass to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

The temperature rating of the sprinkler is identified by the color of the glass bulb.



Application

Quick response sprinklers are used in fixed fire protection systems: Wet, Dry, Deluge or Preaction. Care must be exercised that the orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of the National Fire Protection Association or the approving Authority Having Jurisdiction. Quick response sprinklers are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.

Figure	Nominal Size Ranges Inches	Pipe Schedule	Rated Pressure (psi)					
			UL		ULC		FM	
			Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved	Cut Grooved	Roll Grooved
 Figure 716	2 X 1½	AMS,DL,UE,ID,WST,5	-	175	-	175	-	175
	2 X 1½	AMS,BLT,DF,DT,SF,	-	300	-	300	-	300
	2½ X 2	XL,C7,CT,TL,10	-	300	-	300	-	300
		40	350	350	350	350	350	350
	2 X 1½ 2½ X 2,	MF,MLT,MT,WLS,	-	300	-	300	-	300
	3 X 2, 4 X 2	GL,EZT,FF	-	300	-	300	-	300
	3 X 2	AMS,BLT,DF,SF,XL,	-	300	-	300	-	300
	3 X 2½	C7,TL,10	-	300	-	300	-	300
	4 X 2	40	350	350	350	350	350	350
	3 X 2, 3 X 2½, 4 X 3	EZT	-	300	-	300	-	300
	3 X 2½, 4 X 2½, 4 X 3	MF	-	300	-	300	-	300
	4 X 2½, 4 X 3	DF,BLT,DT,SF,C7,FF,10	-	300	-	300	-	300
 Figure 730 Threaded*	5 X 4	40	350	350	350	350	350	350
	6 X 4	DF,BLT,DT,SF,C7,FF,10	-	300	-	300	-	300
		40	300	300	300	300	300	300
		EZ	-	250	-	250	-	300
	6 X 5	10	-	300	-	300	-	300
	8 X 6	40	300	300	300	300	300	300
		ID,UE,WST	-	175	-	175	-	175
	2 X ½,¾,1,1¼,1½	AMS,BLT,DF,DT,SF,XL,CT,	-	300	-	300	-	300
		TL,MF,MLT,MT,WLS,GL,10	-	300	-	300	-	300
	2½ X ½,¾,1,1¼,1½	AMS,DF,SF,XL,MF,10	-	300	-	300	-	300
	3 X ½,¾,1,1¼,1½,2	EZT	-	300	-	300	-	300
	3 X ½,¾,1,1¼,1½,2		-	300	-	300	-	300
 Figure 730 Grooved**	2 X ½,¾,1,1¼,1½	C7,FF	-	300	-	300	-	300
	2½ X ½,¾,1,1¼,1½		-	300	-	300	-	300
	3 X ½,¾,1,1¼,1½,2		-	300	-	300	-	300
	4 X ½,¾,1,1¼,2,2½,3		-	300	-	300	-	300
	4 X 1¼,1½,2,2½	EZ	-	250	-	250	-	250
	6 X 1½,2,2½		-	300	-	300	-	300
	4 X ½,¾,1,1¼,1½,2,2½,3	AMS,DF,SF,MF,10	-	300	-	300	-	300
	5 X 2,2½		-	300	-	300	-	300
	6 X 1½,2,2½,3	10	-	300	-	300	-	300
	8 X 2½,3,4		-	250	-	250	-	250
	6 X 4	10,40	-	250	-	250	-	250
	2 X ½,¾,1,1¼,1½		300	300	300	300	300	300
	2½ X ½,¾,1,1¼,1½		300	300	300	300	300	300
	3 X ½,¾,1,1¼,1½,2		300	300	300	300	300	300
	4 X ½,¾,1,1¼,2,2½,3		300	300	300	300	300	300
	5 X 2,2½		300	300	300	300	300	300
	6 X 1½,2,2½,3		300	300	300	300	300	300
	8 X 2½,3,4		300	300	300	300	300	300
 Figure 730 Grooved**	2 X 1¼,1½	ID,UE,WST	-	175	-	175	-	175
		BLT,DF,DT,SF,XL,C7,CT,	-	300	-	300	-	300
		MF,MLT,MT,WLS,GL,FF,10	-	300	-	300	-	300
	2½ X 1¼,1½	AMS,DF,SF,XL,	-	300	-	300	-	300
	3 X 1¼,1½,2	C7,MF,FF,10	-	300	-	300	-	300
	3 X 1¼,1½,2	EZT	-	300	-	300	-	300
	4 X 1¼,1½,2,2½,3	AMS,DF,SF,C7,MF,FF,10	-	300	-	300	-	300
	4 X 1¼,1½,2,2½		-	300	-	300	-	300
	6 X 1½,2,2½	EZ	-	250	-	250	-	250
	5 X 2,2½		-	300	-	300	-	300
	6 X 1½,2,2½,3	10	-	300	-	300	-	300
	8 X 2½,3,4		-	250	-	250	-	250
	6 X 4	10,40	-	250	-	250	-	250
	2 X 1¼,1½		300	300	300	300	300	300
	2½ X 1¼,1½		300	300	300	300	300	300
	3 X 1¼,1½,2		300	300	300	300	300	300
	4 X 1¼,1½,2,2½,3		300	300	300	300	300	300
	5 X 2,2½		300	300	300	300	300	300
	6 X 1½,2,2½,3		300	300	300	300	300	300
	8 X 2½,3,4		300	300	300	300	300	300

* Figure 730 Threaded Mechanical Outlets are Listed and Approved in both the Tee and Cross configurations with NPT and BSP threaded outlets

** Figure 730 Grooved Mechanical Outlets are Listed and Approved in both the Tee and Cross configurations



MODEL 1000

TESTANDRAIN

3/4"

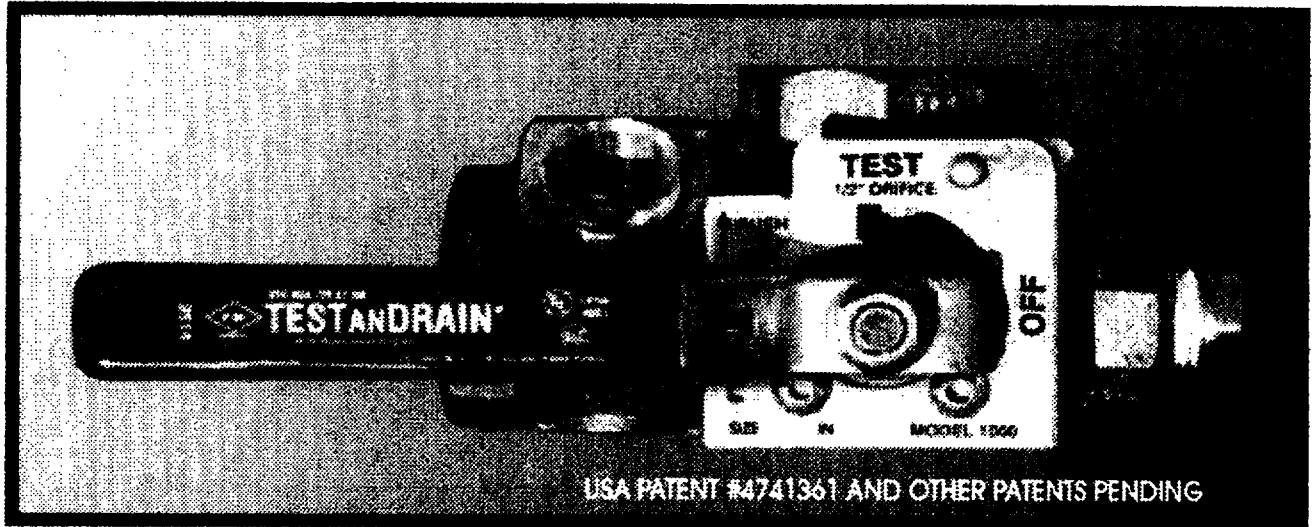
1"

1 1/4"

1 1/2"

2"

OR EQUAL



- ☐ The AGF Manufacturing Inc. Model 1000 **TESTANDRAIN** Provides Both The Test Function And The Express Drain Function For A Wet Fire Sprinkler System.
- ☐ The Model 1000 Complies With All Requirements Of NFPA-13, NFPA-13R, And NFPA-13D.
- ☐ The Model 1000 **TESTANDRAIN** Is A Single Handle Ball Valve That Is Light Weight And Compact, Includes A Tamper Resistant Test Orifice, Integral Tamper Resistant Sight Glasses, And Is 300 PSI Rated.
- ☐ Available In A Full Range Of Sizes From 3/4" To 2" NPT & BSPT, With All Specifiable Orifice Sizes 3/8", 7/16", 1/2", 17/32", 5/8" (ELO), & 3/4" (ESFR).
- ☐ The Orifice Size Is Noted On The Indicator Plate And The Valve Is Tapped For A Pressure Gauge.
- ☐ Locking Kit Available Which Provides Superior Vandal Resistance And Prevents Unintentional Alarm Activation.

Check Out Our New AutoCAD Site!
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at

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MODEL 1000

300 PSI



TEST AND DRAIN

~~3/4"~~

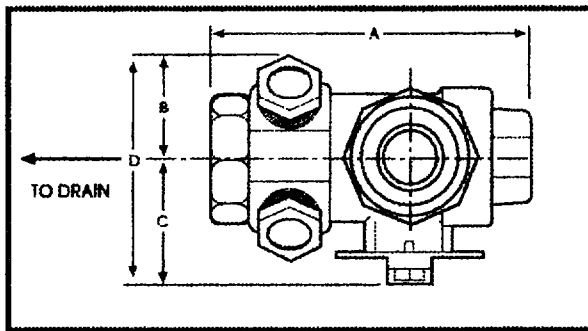
1"

~~1 1/4"~~

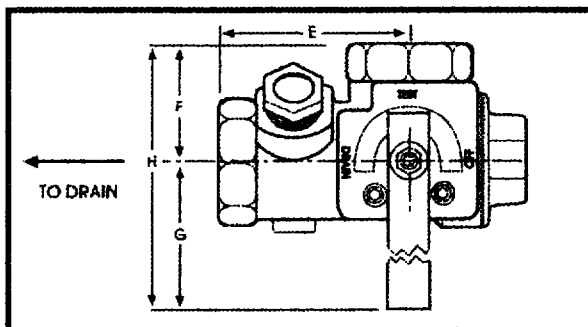
~~1 1/2"~~

~~2"~~

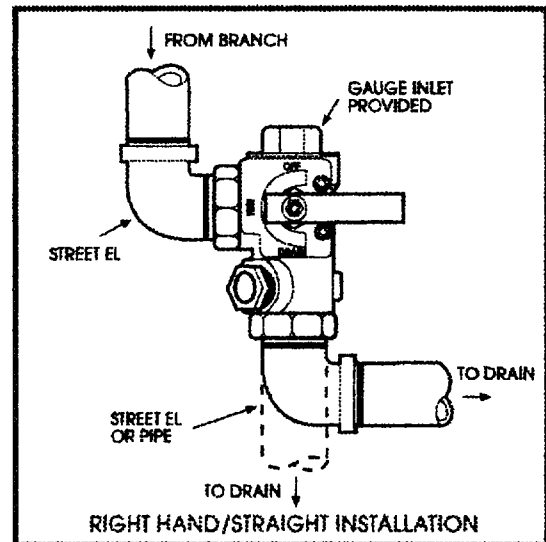
PLAN VIEW



FRONT VIEW/HORIZONTAL INSTALLATION



FRONT VIEW/VERTICAL INSTALLATION



APPROVALS:

- ☐ UL and ULC Listed
- ☐ FM Approved except 3/4"
- ☐ NYC-BSA NO. 720-87-SM
- ☐ CA. State Fire Marshall

ORIFICE SIZE

AVAILABLE - 3/8, 7/16, 1/2, 17/32, ELO(5/8)", ESFR(3/4)"

DIMENSIONS - INCHES

SIZE	A	B	C	D	E	F	G	H
3/4"	5 1/16" 128mm	1 1/2" 37.5mm	2 3/16" 55.85mm	3 5/8" 92.2mm	3 3/8" 85.8mm	1 13/16" 45.3mm	4 9/16" 117.12mm	6 3/8" 162.42mm
1"	5 1/16" 128mm	1 1/2" 37.5mm	2 3/16" 55.85mm	3 5/8" 92.2mm	3 3/8" 85.8mm	1 13/16" 45.3mm	4 9/16" 117.12mm	6 3/8" 162.42mm
1 1/4"	5 7/16" 127.70mm	1 11/16" 42.70mm	2 9/16" 65.34mm	4 1/4" 109.36mm	3 5/16" 82.84mm	1 15/16" 60.8mm	5 9/16" 141.38mm	5 1/2" 192.28mm
1 1/2"	6 7/16" 163.38mm	1 13/16" 45.50mm	3 1/4" 81.50mm	5 1/16" 127mm	3 7/8" 98.18mm	2 5/8" 66.97mm	8 1/4" 206.63mm	10 7/8" 273.60mm
2"	6 7/16" 163.38mm	1 13/16" 45.50mm	3 1/4" 81.50mm	5 1/16" 127mm	3 7/8" 98.18mm	2 5/8" 66.97mm	8 1/4" 206.63mm	10 7/8" 273.60mm

MATERIAL LIST

PART:	MATERIAL:
HANDLE	STEEL
STEM	ROD BRASS
BALL	C.P. BRONZE
BODY	BRONZE
VALVE SEAT	IMPREGNATED TEFLON
INDICATOR PLATE	STEEL
HANDLE LOCK	SPRING STEEL

*Available on 1 1/4" to 2" size units only. **3/4" UL Listed only.

UL LISTING EX4019

AGF MANUFACTURING INC.

100 Quaker Lane
Malvern, PA 19355 USA
Telephone: (610) 240-4900
Fax: (610) 240-4906
www.testandrain.com



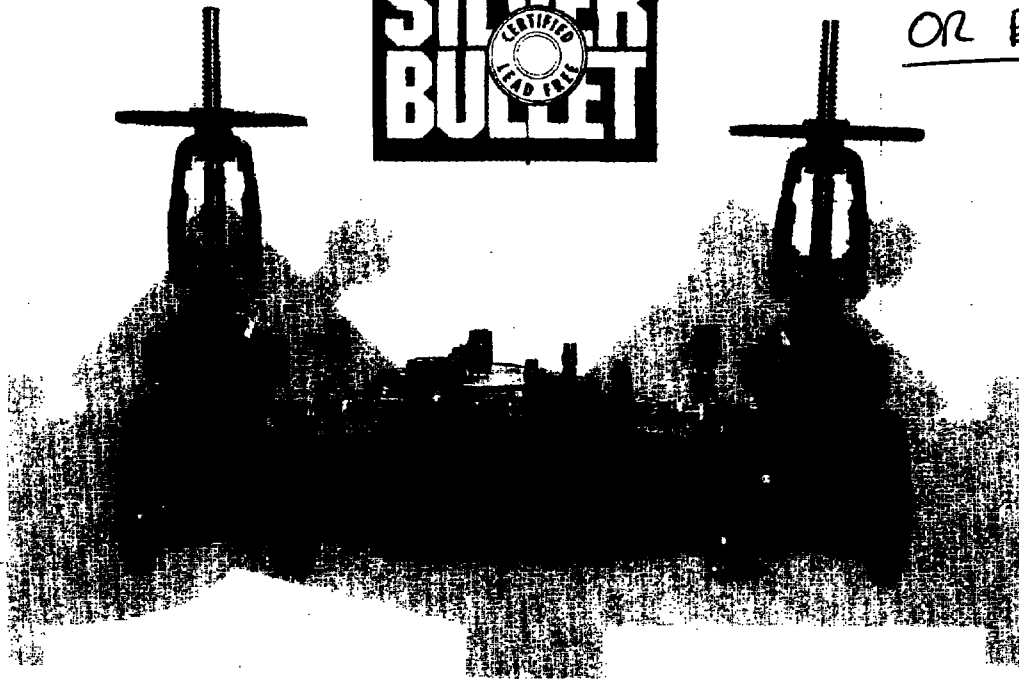
JOB NAME: _____
ARCHITECT: _____
ENGINEER: _____
CONTRACTOR: _____

2 1/2" G. ESFR UL LISTED & FM APPROVED
1 1/4" G. ESFR UL LISTED

MODEL 3000ss Double Check Detector Assembly

**SILVER
BULLET**

OR EQUAL



F O R F I R E P R O T E C T I O N S Y S T E M S

The Ames Backflow Preventer: Lighter, Shorter, Better Flowing Than Any Other

■ **Application**

The Ames 3000ss protects the potable water system by preventing backflow from fire protection systems. The device also detects leaks or unauthorized use of water from fire protection lines.

■ **Operation**

In the incidence of minimal water flow, the valve clapper remains closed so that the water flows through the bypass loop. When major water flow is required, the water pressure will open the main valves to allow full water flow.

■ **Installation**

The 3000ss should be installed with adequate clearance and easy accessibility for maintenance and testing. The 3000ss may be installed vertically or horizontally. Refer to local codes for specific installation requirements.

■ **Features**

- Lowest documented head loss.
- Non-Corrosive 300 series stainless steel (lead free) construction.
- 40% shorter end to end dimensions for compact, inexpensive installation.
- Excellent for retrofit installations.
- 50% lighter in weight, reduces installation and handling costs.
- Fully serviceable inline, no special tools.
- Pretested cam-check (patented)* assembly for long term reliability, low head loss, ease of serviceability.
- Single two-bolt grooved style cover for quick and easy access.
- Only ASSE 1048 approved assembly for vertical and horizontal applications.
- Made in U.S.A.
- Head loss equal to less than single detector check valve.

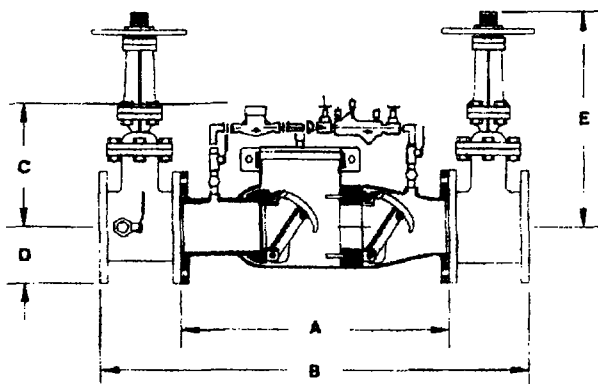
■ **National Approvals**

Approved by national approval agencies.**

AMES
FLUID CONTROL SYSTEMS

*Pat. #5,046,525

MODEL 3000ss Double Check Detector Assembly

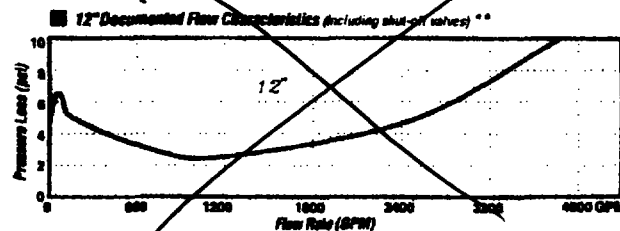
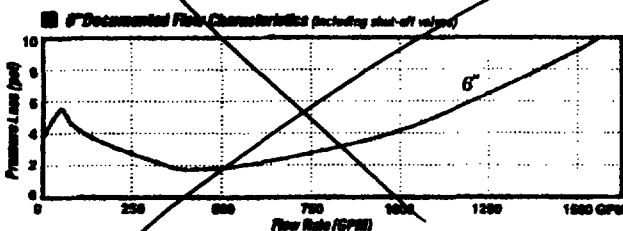
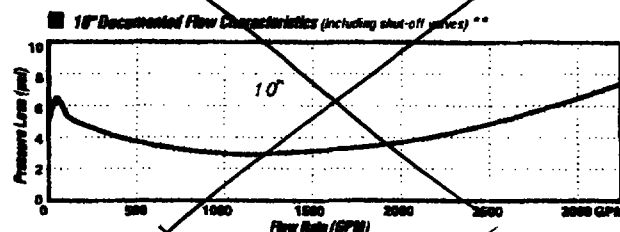
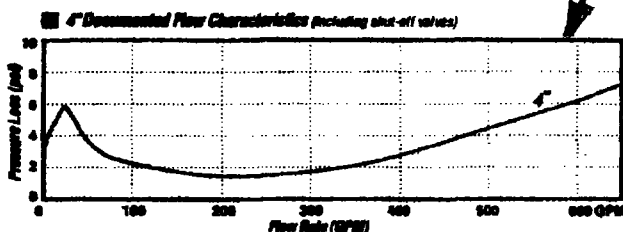
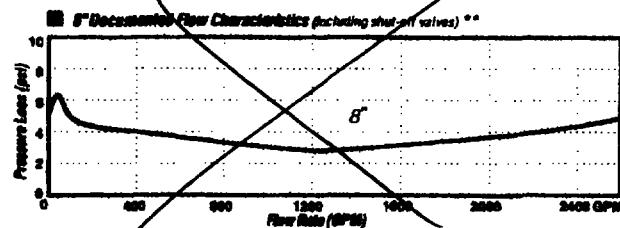
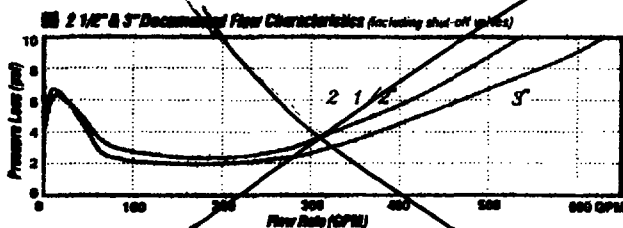


Ames 3000ss - Weights & Dimensions (inches)

SIZE	A	B	C	D	E (Open)	F	Net Wt. (lb.) w/Gates	Net Wt. (lb.) w/o Gates
2 1/2"	22"	38"	10"	3 1/2"	16"	12 1/2"	155#	68#
3"	22"	38"	10"	3 3/4"	22"	13"	230#	70#
4"	22"	40"	10"	4 1/2"	23 1/2"	14 1/2"	240#	73#
6"	27 1/2"	48 1/2"	15"	5 1/2"	30"	15 1/2"	390#	120#
8"	29 1/2"	52 1/2"	15"	6 3/4"	37 3/4"	18 1/4"	572#	180#
10"	29 1/2"	55 1/2"	15"	8"	48"	19 1/2"	774#	190#
12"	29 1/2"	57 1/2"	15"	9 1/2"	54"	21"	1044#	220#

Physical Characteristics

Sizes - 2 1/2", 3", 4", 6", 8", 10", 12"
 Rated working pressure - 175 psi
 Hydrostatic Pressure - 350 psi
 Temperature range - 32°F - 110°F
 Body material - 300 series stainless steel
 Flange dimension in accordance with AWWA Class D
 Assembly shall be ASSE 1048 approved for vertical installations,



Specifications

The double check detector assembly consists of two independently operating, spring loaded check valves, two UL, FM, OSY resilient wedge gate valves, and bypass assembly. The bypass assembly consists of a meter (cubic ft. or gallons), a double check including shut off valves and required test cocks. Each cam-check shall be internally loaded and provide a positive drip tight closure against reverse flow. Cam-check includes a

stainless steel cam arm and spring, rubber faced disc and a replaceable seat. The body shall be manufactured from 300 series stainless steel, 100% lead free, through the water way, with a single two-bolt grooved style access cover. No special tools shall be required for servicing. Double check detector shall be 3000ss.

**Contact the factory for specific approvals

Fig. 200 - "Trimline" Adjustable Band Hanger

Size Range — 1/2" thru 8" pipe

Material — Carbon Steel, Mil. Galvanized to G90 specifications

Function — For fire sprinkler and other general piping purposes. Knurled swivel nut design permits hanger adjustment after installation.

Features —

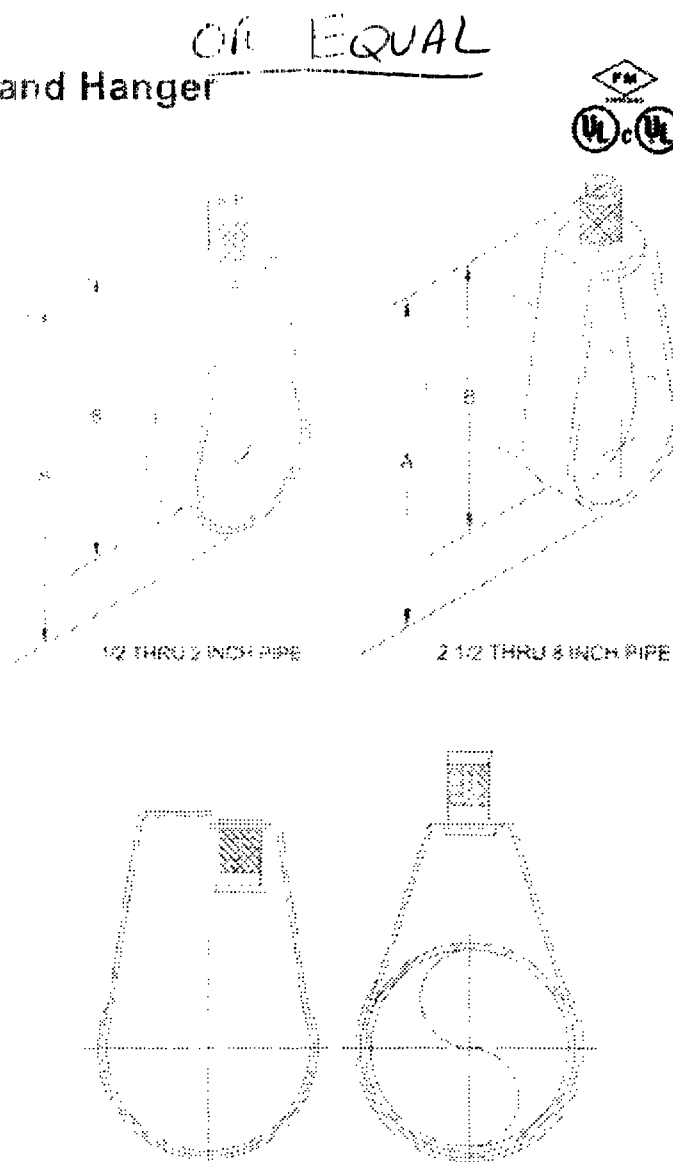
- (1/2" thru 2") Flared edges ease installation for all pipe types and protect CPVC plastic pipe from abrasion. Captured design keeps adjusting nut from separating with hanger. Hanger is easily installed around pipe.
- (2 1/2" thru 8") Spring tension on nut holds it securely in hanger before installation. Adjusting nut is easily removed.

Approvals — Underwriters' Laboratories listed (1/2" thru 8") in the USA (UL) and Canada (cUL) for steel and CPVC plastic pipe and Factory Mutual Engineering Approved (3/4" thru 8"). Conforms to Federal Specifications WW-H-171E, Type 10 and Manufacturers Standardization Society SP-69, Type 10.

Maximum Temperature — 650°F

Finish — Mil. Galvanized. For Stainless Steel materials, order TOLCO™ Fig. 200WON.

Order By — Figure number and pipe size



Dimensions • Weights						
Pipe Size	Rod Size Inch	Metric	A	B	Max. Rec. Load Lbs.	Approx. Length
1/2	3/8	8mm or 10mm	3 1/8	2 1/8	400	11
3/4	3/8	8mm or 10mm	3 1/8	2 1/8	400	11
1	3/8	8mm or 10mm	3 1/8	2 1/8	400	12
1 1/4	3/8	8mm or 10mm	3 1/8	2 1/8	400	13
1 1/2	3/8	8mm or 10mm	3 1/8	2 1/8	400	14
2	3/8	8mm or 10mm	4 1/2	3	400	15
2 1/2	3/8	10mm	5 1/8	4 1/8	600	27
3	3/8	10mm	5 1/8	4	600	29
3 1/2	3/8	10mm	7 1/8	5 1/8	600	34
4	3/8	10mm	7 1/8	5	1000	35
5	1/2	12mm	9 1/8	6 1/8	1250	66
6	1/2	12mm	10 1/8	6 1/8	1250	73
8	1/2	12mm	13 1/8	8 1/8	1250	136

Fig. 98 - Rod Stiffener

Size Range — Secures 3/8" thru 7/8" hanger rod

Material — Carbon Steel

Function — Secures channel to hanger rod for vertical seismic bracing.

Finish — Electro Galvanized

Note — Available in HDG finish or Stainless Steel materials.

Order By — Figure number

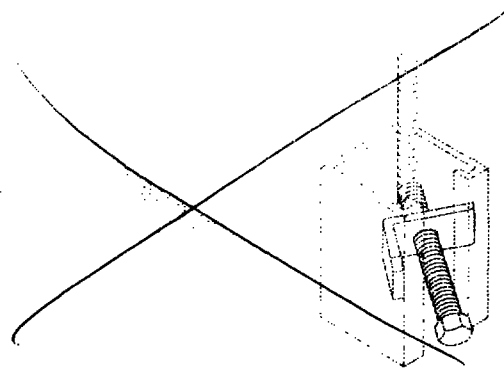


Fig. 99 - All Thread Rod Cut to Length

Size Range — Secures 3/8" thru 7/8" rod in 1" increments

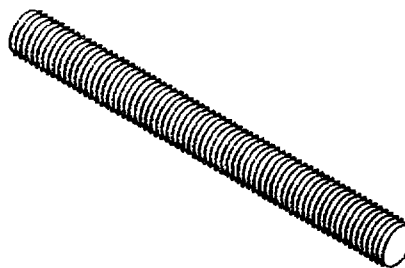
Material — Carbon Steel

Maximum Temperature — 750°F

Finish — Plain

Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.

Order By — Figure number, rod diameter, rod length and finish



Dimensions • Weights

Rod Size	Max. Rec. Load Lbs. For Service Temps	
	650°F	750°F
3/8	610	540
1/2	1130	1010
5/8	1810	1610
3/4	2710	2420
7/8	3770	3360

Fig. 100 - All Thread Rod Full Lengths

Size Range — Secures 3/8" thru 7/8" rod in 10' lengths

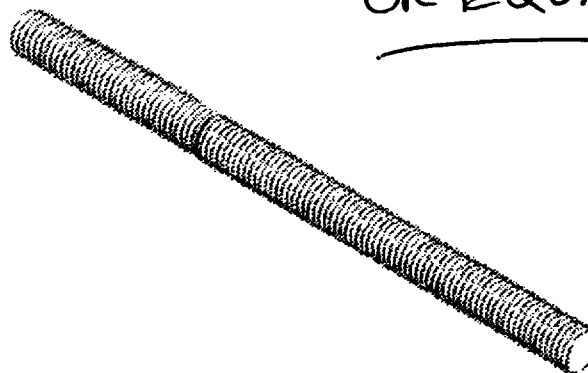
Material — Carbon Steel

Maximum Temperature — 750°F

Finish — Plain

Note — Available in Electro-Galvanized and HDG finish or Stainless Steel materials.

Order By — Figure number, rod diameter and finish



OR EQUAL

Dimensions • Weights

Rod Size	Max Rec. Load Lbs. For Service Temps		Approx. Wt./100
	650°F	750°F	
1/4	240	215	12
3/8	610	540	29
1/2	1130	1010	53
5/8	1810	1610	84
3/4	2710	2420	123
7/8	3770	3360	169
1	4960	4420	222
1 1/4	8000	7140	360
1 1/2	11630	10370	510

**Fig. 200H - Heavy Duty Band Hanger (for Trapeze)**

Size Range — 1/2" thru 4" trapeze pipe size.

Used to support up to 8" pipe.

Material — Carbon Steel — Pre-Galvanized to G40 Spec.

Function — Designed primarily to support substantially heavier loads than is normally intended for the nominal hanger size. Used extensively to support trapeze installations and the increased loads from both above and below the trapeze assembly.

Features — Furnished with 3/8" or 1/2" adjusting threaded ring nut.

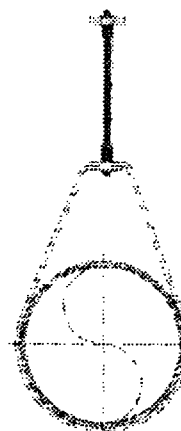
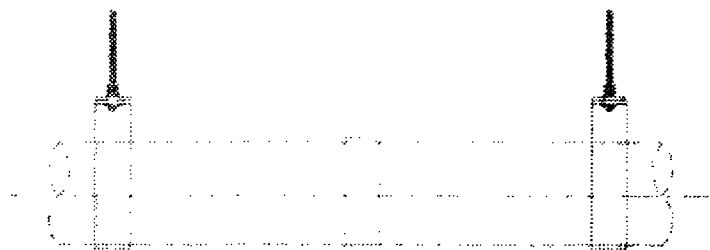
Approvals — Underwriters' Laboratories listed in the USA (**UL**) and Canada (**cUL**). Conforms to Federal Specification WW-H-171E, Type 10 and Manufacturers Standardization Society SP-69, Type 10.

Maximum Temperature — 650°F

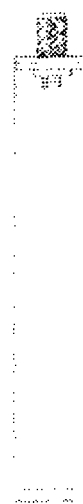
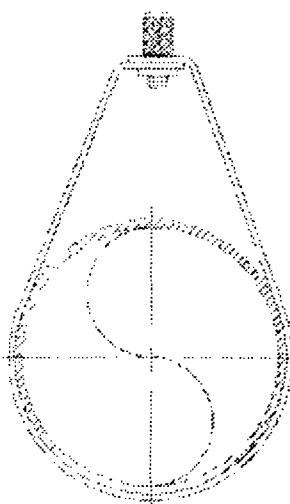
Finish — Pre-Galvanized

Order By — Figure number, pipe size and rod size.

Important Design Note — Because of the increased loads applied to the trapeze assembly, both the upper trapeze supports as well as the lower hanging unit must be able to hold the maximum loads intended.



OR EQUAL



Schedule-10®/Schedule-40®

Fully Listed and FM Approved Sprinkler Pipe

When you specify Schedule-10/Schedule-40 sprinkler pipe you get a UL listed and FM approved product. Although these products do not require separate approvals, Schedule-10/Schedule-40 gives you the extra quality assurance you demand. Our Sch-10 (1 1/4" - 8") pipe and Sch-40 (1" - 2 1/2") pipe have passed the same thorough lab testing as our other listed pipe products, and receive periodic mill inspections from both UL and FM agents to ensure consistent quality.

Galvanized Pipe

Schedule-10/Schedule-40 product can be "hot-dip" galvanized to meet FM requirements for dry systems in accordance with the zinc coating specifications of ASTM A-123.

Superior Coating

Our advanced formula mill coating offers a clean, durable surface. It is also paint-ready for custom color applications without special preparation.

The internal surface of all black Allied Tube & Conduit Fire Sprinkler pipe products up to 4.5000" in diameter is coated with our new Antibacterial Formula, "ABF". In scientific laboratory test, ABS proved to have superior resistance to microbial colonization of pipe walls, thereby delaying or possibly preventing the onset of Microbiologically Influenced corrosion (MIC) when the First Sprinkler System is first installed.

American Made

Meets "Buy American" requirement and is available through distributors in the USA, Canada and Mexico.

Specifications & Approvals

Schedule-10/Schedule-40 pipe are in compliance with the following:

ASTM A-135, and NFPA 13. Both pipe products have a working pressure rating of 300 psi maximum and also meet the stringent requirement for the following tests:

- Welded Outlets
- Hydrostatic Pressure
- Side Wall Rupture
- Vibration Test

Sch-40 Specifications

NPS In; mm	Nominal I.D. In; mm	WT. Lbs/Ft; Kg/m	WT. (H2O Filled) Lbs/Ft; Kg/m	Pcs/ Lift	W/LR (21") Lbs; Kg	W/LR (24") Lbs; Kg	W/LR (25") Lbs; Kg
1"	1.049	1.680	2.05	70	2,470	2,822	2,940
25	26.6	2.5	3.05	70	1,120	1,280	1,334
1 1/4"	1.380	2.270	2.93	51	2,431	2,778	2,894
32	35.1	4.36	4.36	51	1,103	1,260	1,313
1 1/2"	1.610	2.720	3.61	44	2,513	2,872	2,992
40	40.9	4.0	5.37	44	1,140	1,303	1,357
2"	2.067	3.650	5.13	30	2,300	2,628	2,738
50	52.5	5.4	7.63	30	1,043	1,192	1,242
2 1/2"	2.469	5.790	7.86	19	2,310	2,640	2,750
65	62.7	8.6	11.73	19	1,048	1,197	1,247

Sch-10 Specifications

NPS In; mm	Nominal I.D. In; mm	WT. Lbs/Ft; Kg/m	WT. (H2O Filled) Lbs/Ft; Kg/m	Pcs/ Lift	W/LR (21") Lbs; Kg	W/LR (24") Lbs; Kg	W/LR (25") Lbs; Kg
1"	1.097	1.400	1.81	91	2,675	3,053	3,185
25	27.9	2.1	2.70	91	1,213	1,385	1,445
1 1/4"	1.442	1.810	2.52	61	2,319	2,664	2,760
32	36.6	2.7	3.75	61	1,052	1,208	1,252
1 1/2"	1.682	2.080	3.04	61	2,664	3,045	3,172
40	42.7	3.1	4.52	61	1,208	1,381	1,439
2"	2.157	2.640	4.22	37	2,051	2,344	2,442
50	54.8	3.9	6.28	37	930	1,063	1,108
2 1/2"	2.635	3.530	5.89	30	2,224	2,542	2,648
65	66.9	5.3	8.77	30	1,009	1,153	1,201
3"	3.260	4.330	7.94	19	1,728	1,975	2,057
80	82.8	6.4	11.82	19	784	896	933
4"	4.260	5.610	11.78	19	2,238	2,558	2,665
90	108.2	8.3	17.53	19	1,015	1,160	1,209
5"	5.295	7.77	17.33	10	1,632	1,865	1,943
125	134.5	11.56	25.80	10	740	846	881
6"	6.357	9.290	23.03	10	1,951	2,230	2,322
150	161.5	13.8	34.27	10	885	1,012	1,053
8"	8.249	16.490	40.15	7	2,424	2,770	2,885
200	209.5	24.5	59.75	7	1,100	1,256	1,309



Listed



Approved



Listed

tyco / Flow Control

allied
TUBE & CONDUIT

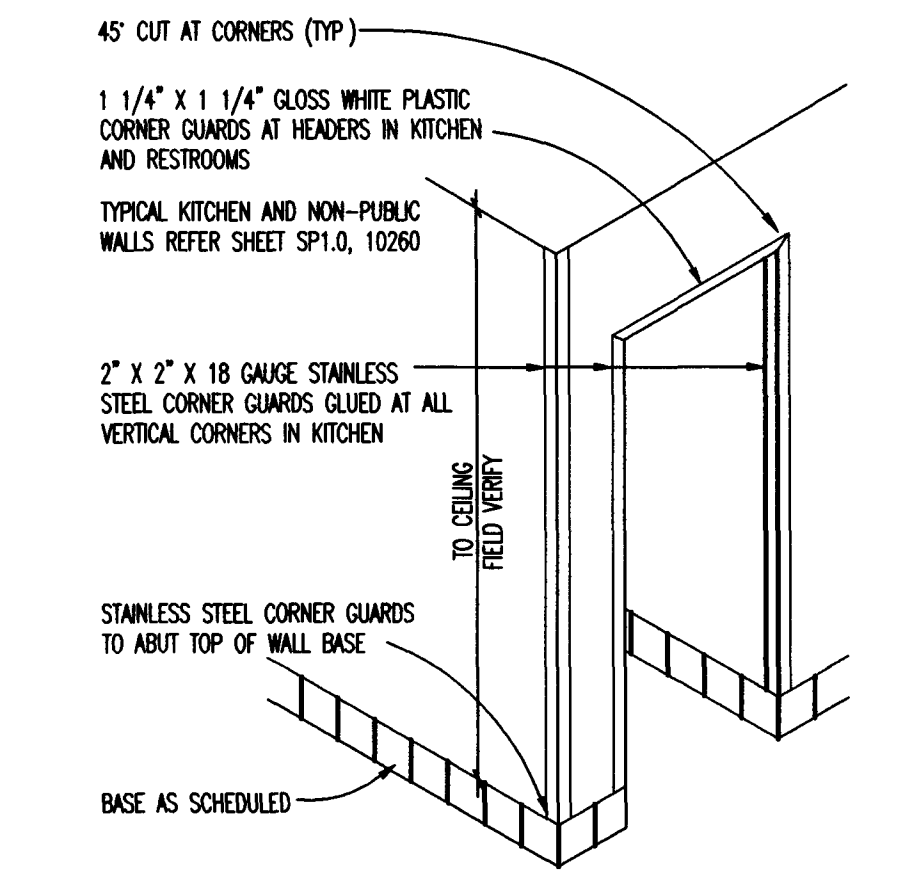
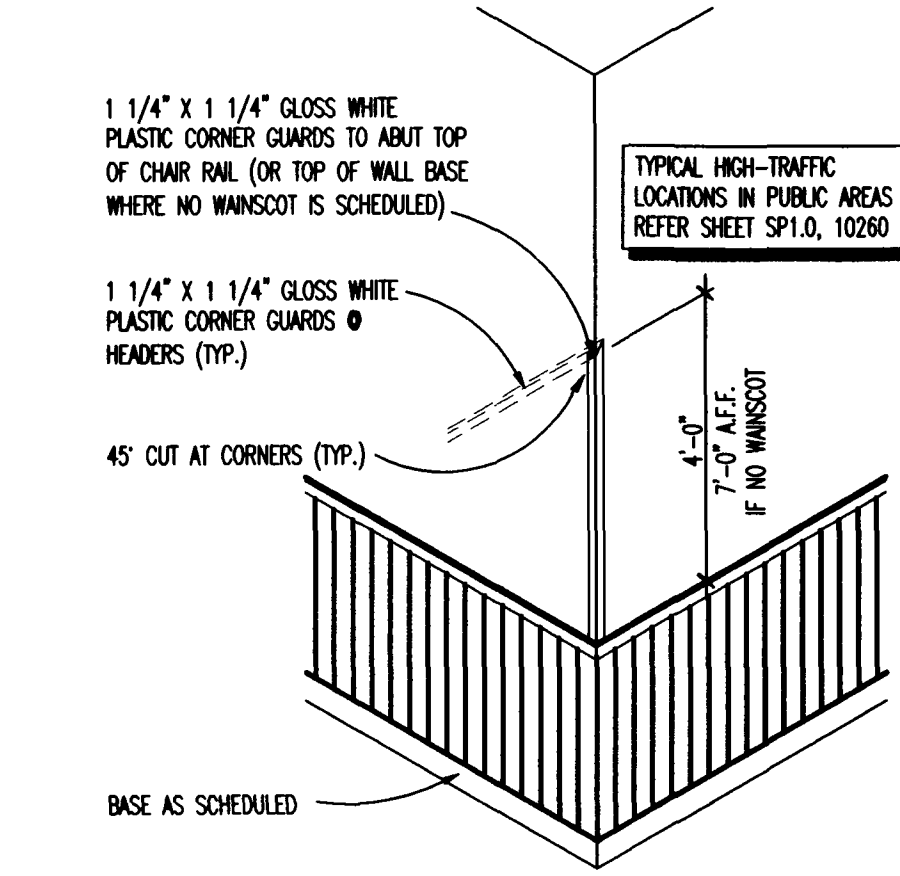
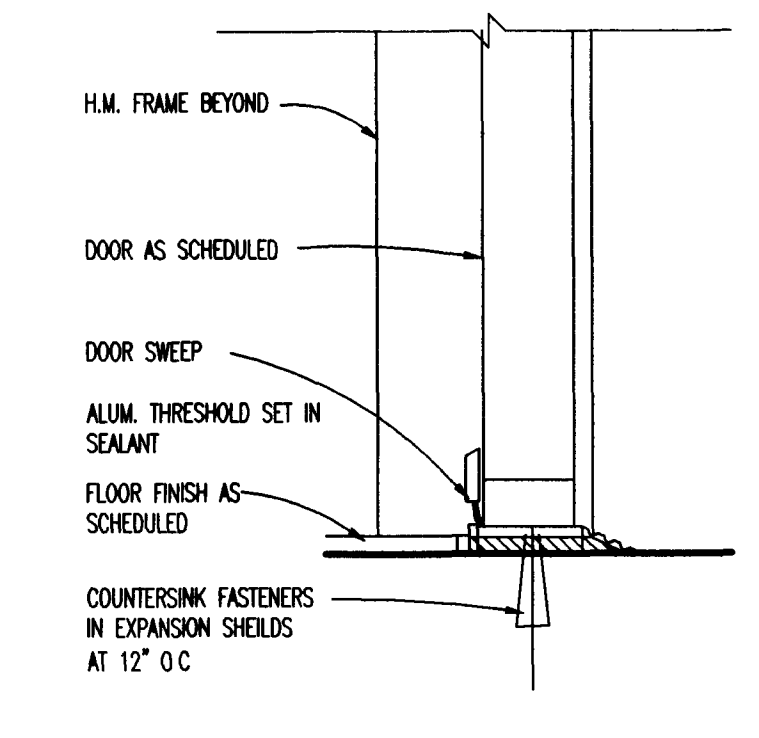
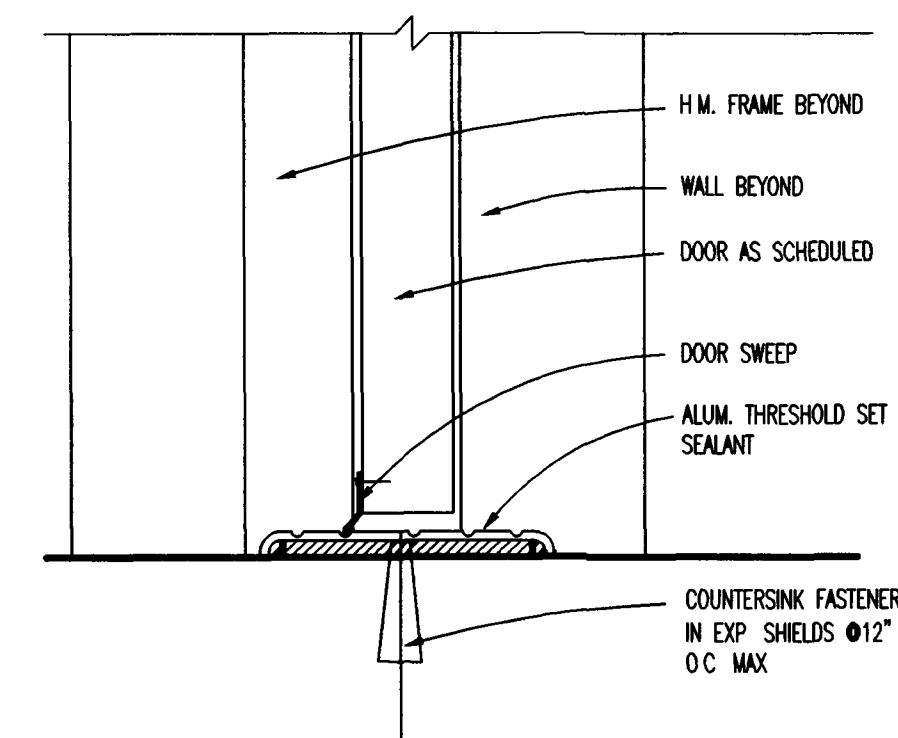
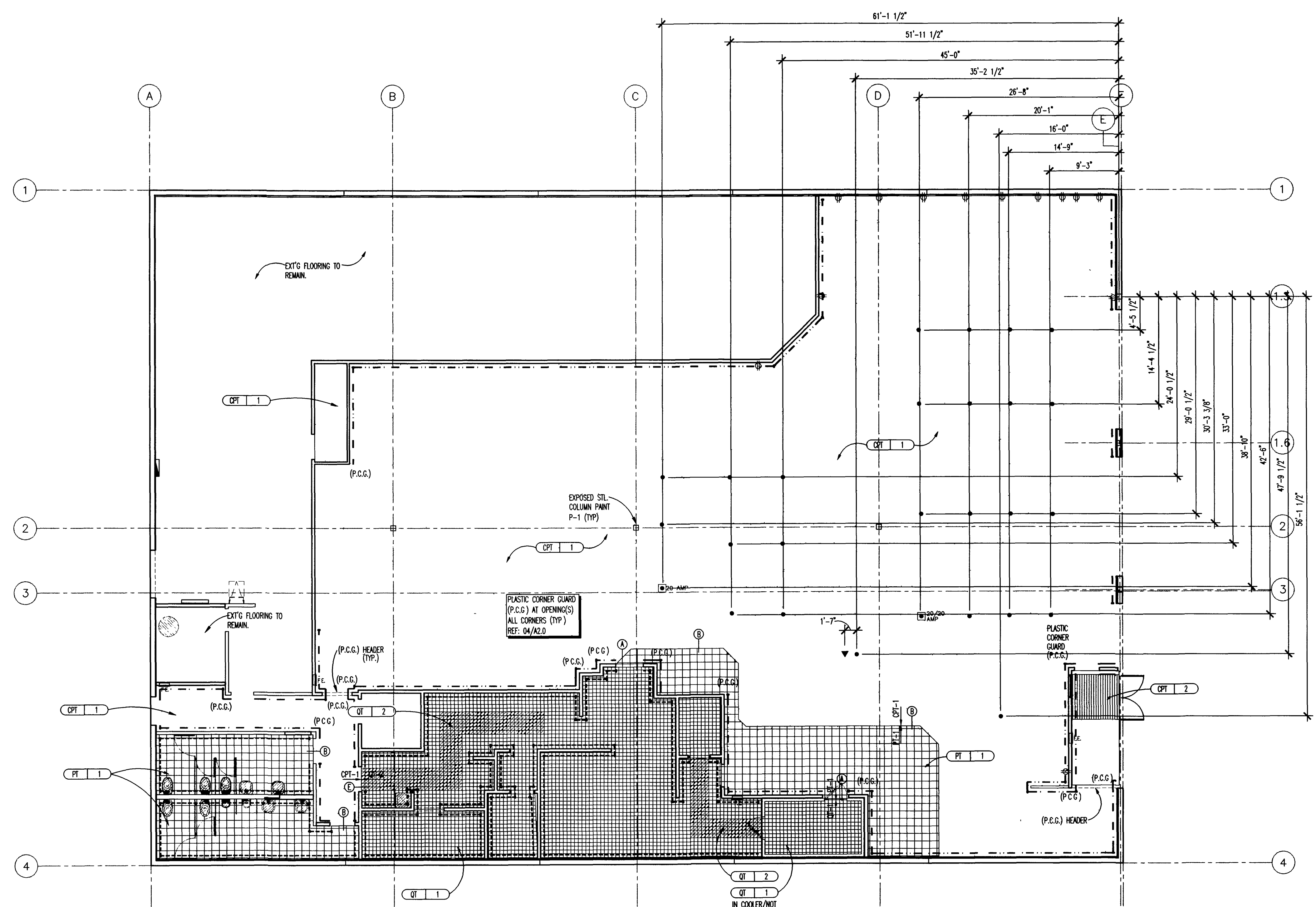
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11350 Norcom Rd. • Philadelphia, PA 19154
2525 N. 27 th Ave. • Phoenix, AZ 85009

Customer Service:
(800) 882-5543
Fax 708-339-1806

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	COLOR
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	BY
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	DATE

1/8"=1'-0"

A20780



FLOOR FINISH LEGEND

- PORCELAIN TILE (PT 1)
- QUARRY TILE (QT 1)
- QUARRY TILE (SLIP RESISTANT) (QT 2)
- CARPET (CPT 1)
- CARPET (CPT 3)
- WALKOFF MAT (W 2)
- SEALED CONCRETE (CONC E)

WALL FINISH

- NEW MARLITE WALL PANEL W/ PAINT ABOVE
- NEW FRP
- NEW CERAMIC WALL TILE

TRANSITION TYPES

- A. ALIGN FINISHES
- B. JOINER STRIP
- C. BULL NOSE TILE
- D. JOINER STRIP
- E. JOINER STRIP

CHUCK E. CHEESE'S PIZZA

3500 SW COLLEGE ROAD UNIT 200
OCALA, FL 34771

C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

Project Number
SB-780

Sheet Number
A2.0
of 13

DATE: 10/18/2004

Revisions

PERMIT

ARCHITECTURE - PLANNING - DESIGN

C. H. CHANG, A.I.A.

1010 W. EUGENE BLVD., SUITE 110
EULESS, TX 76040

817-354-8010

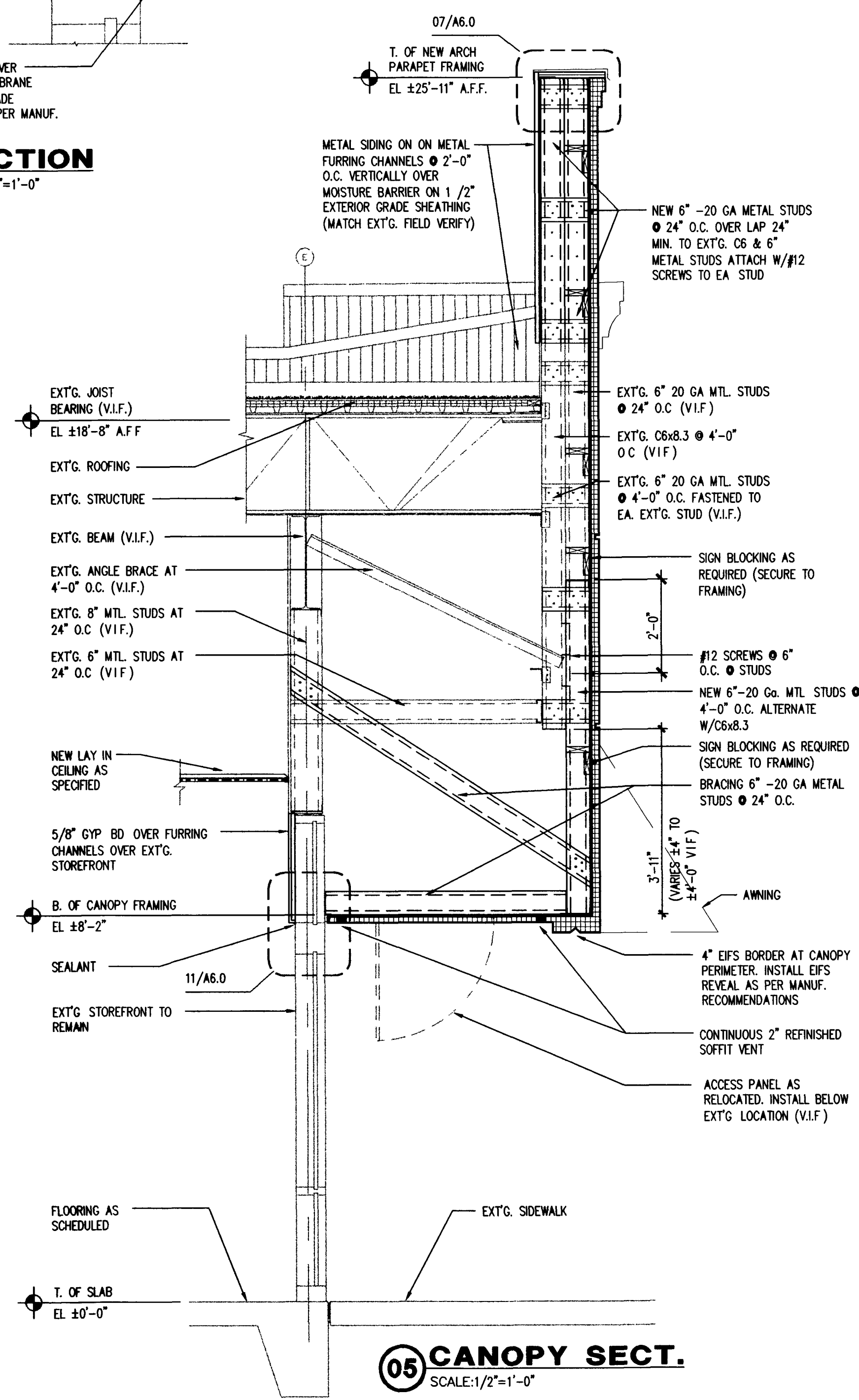
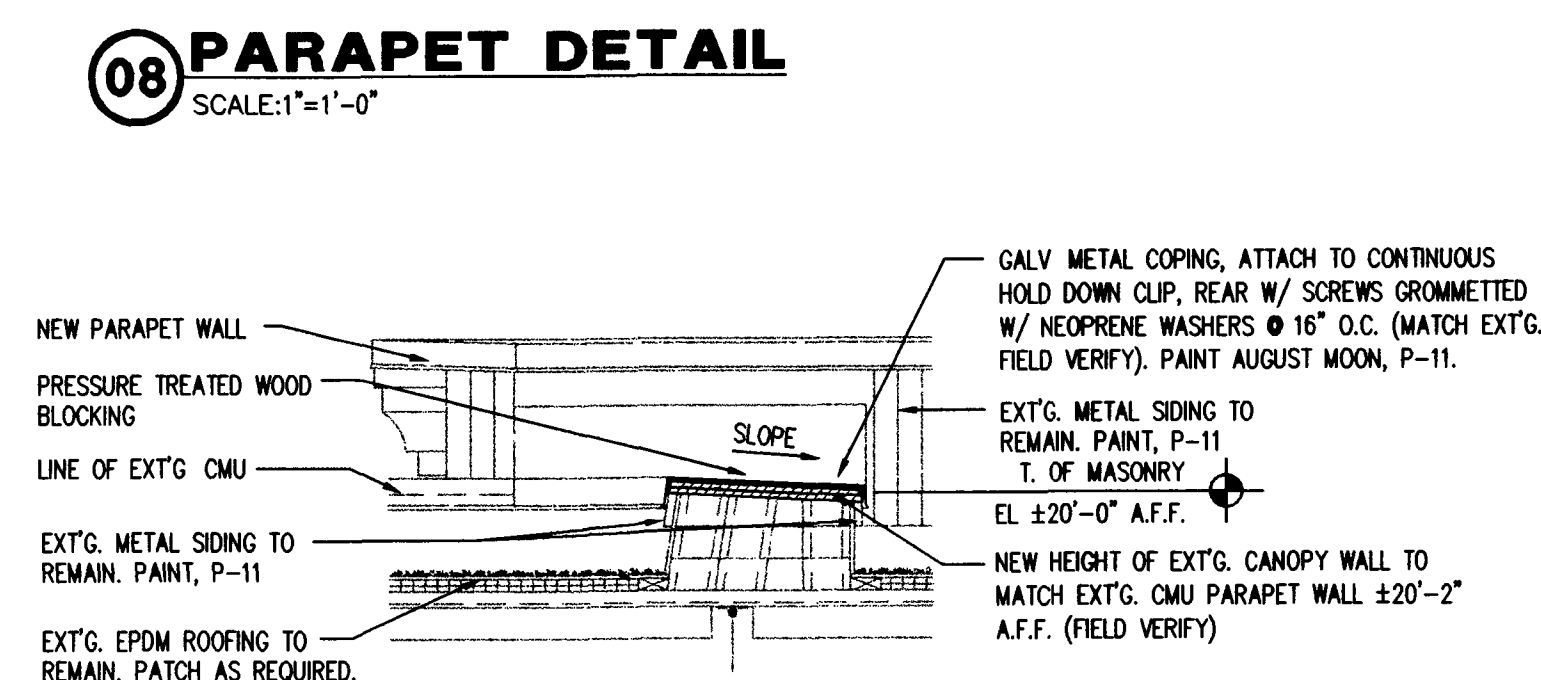
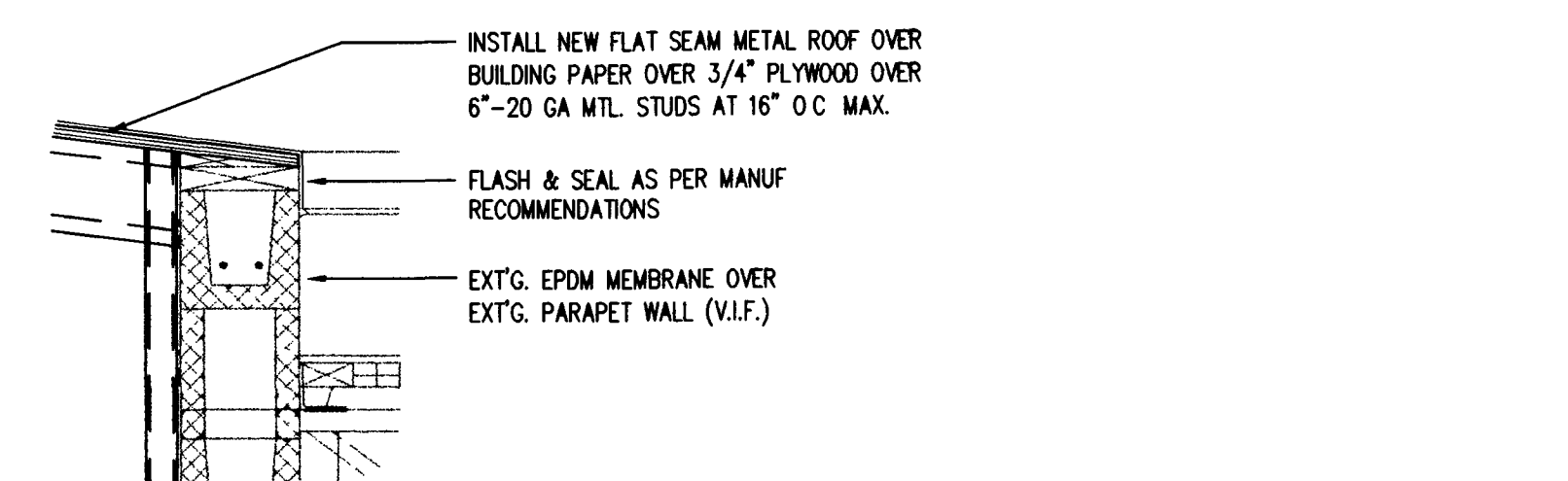
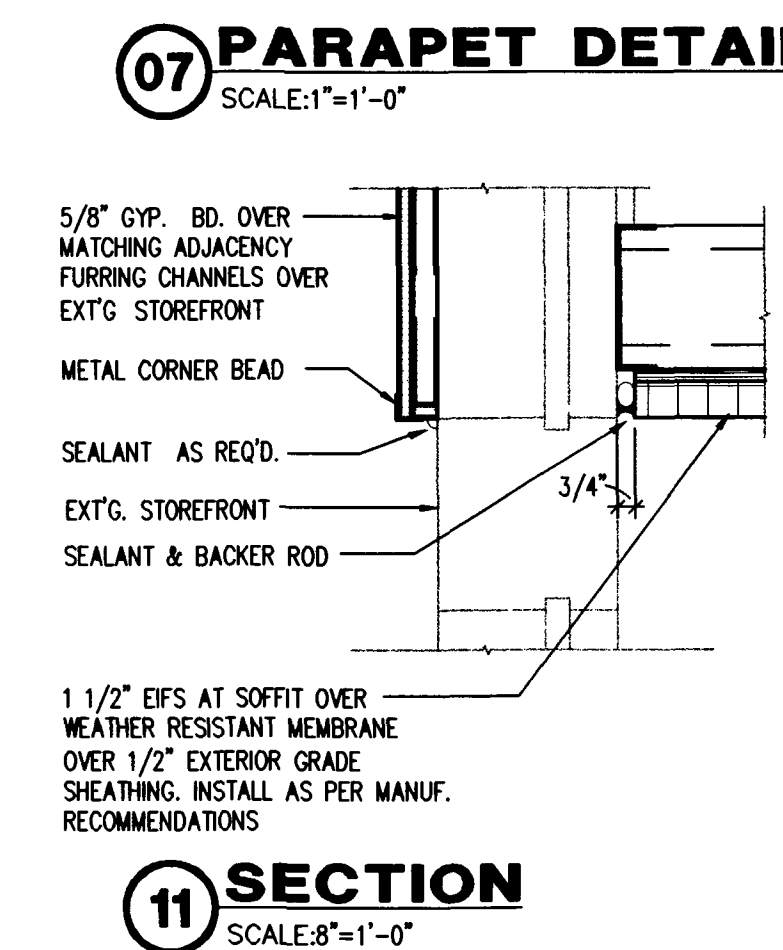
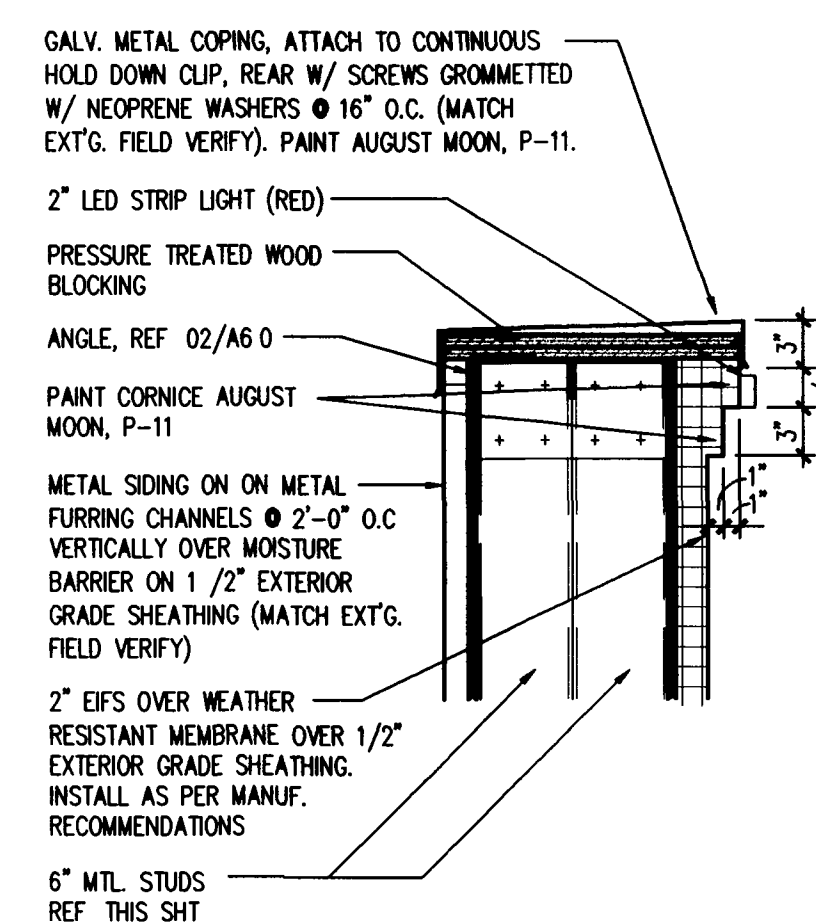
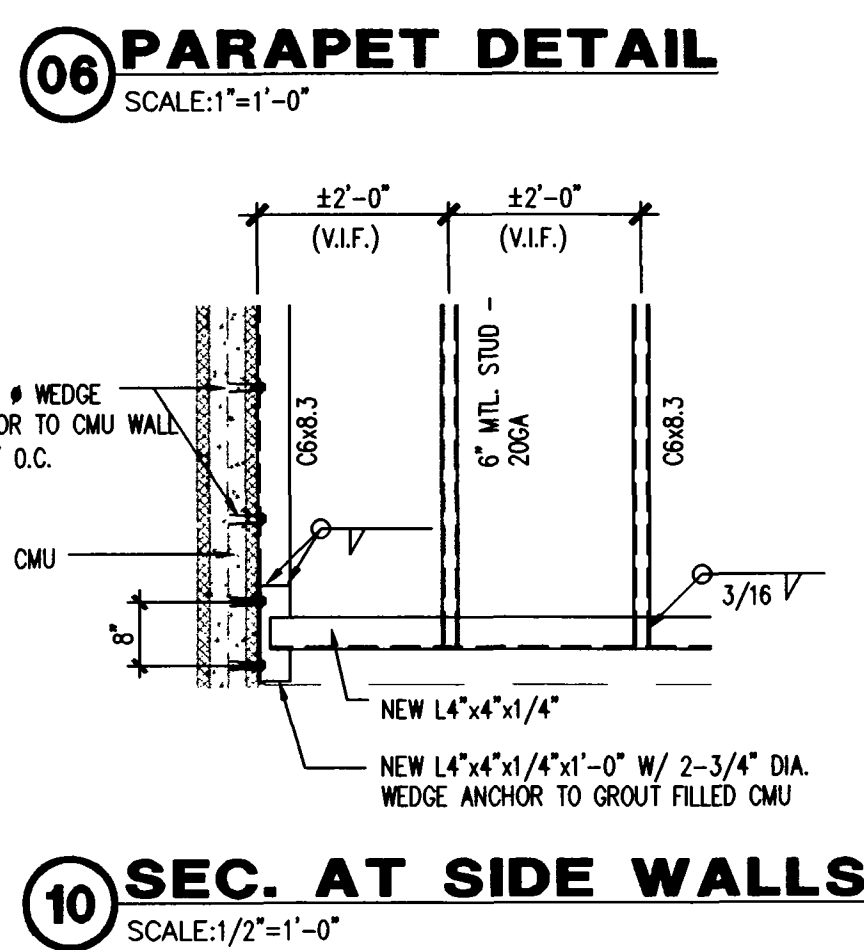
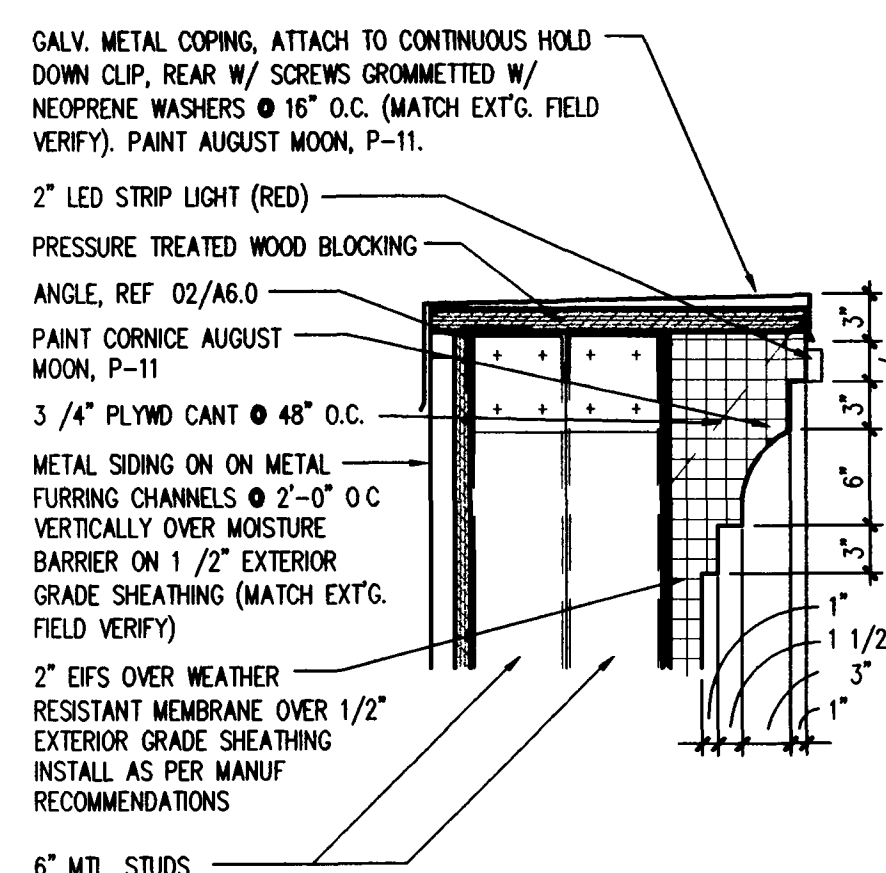
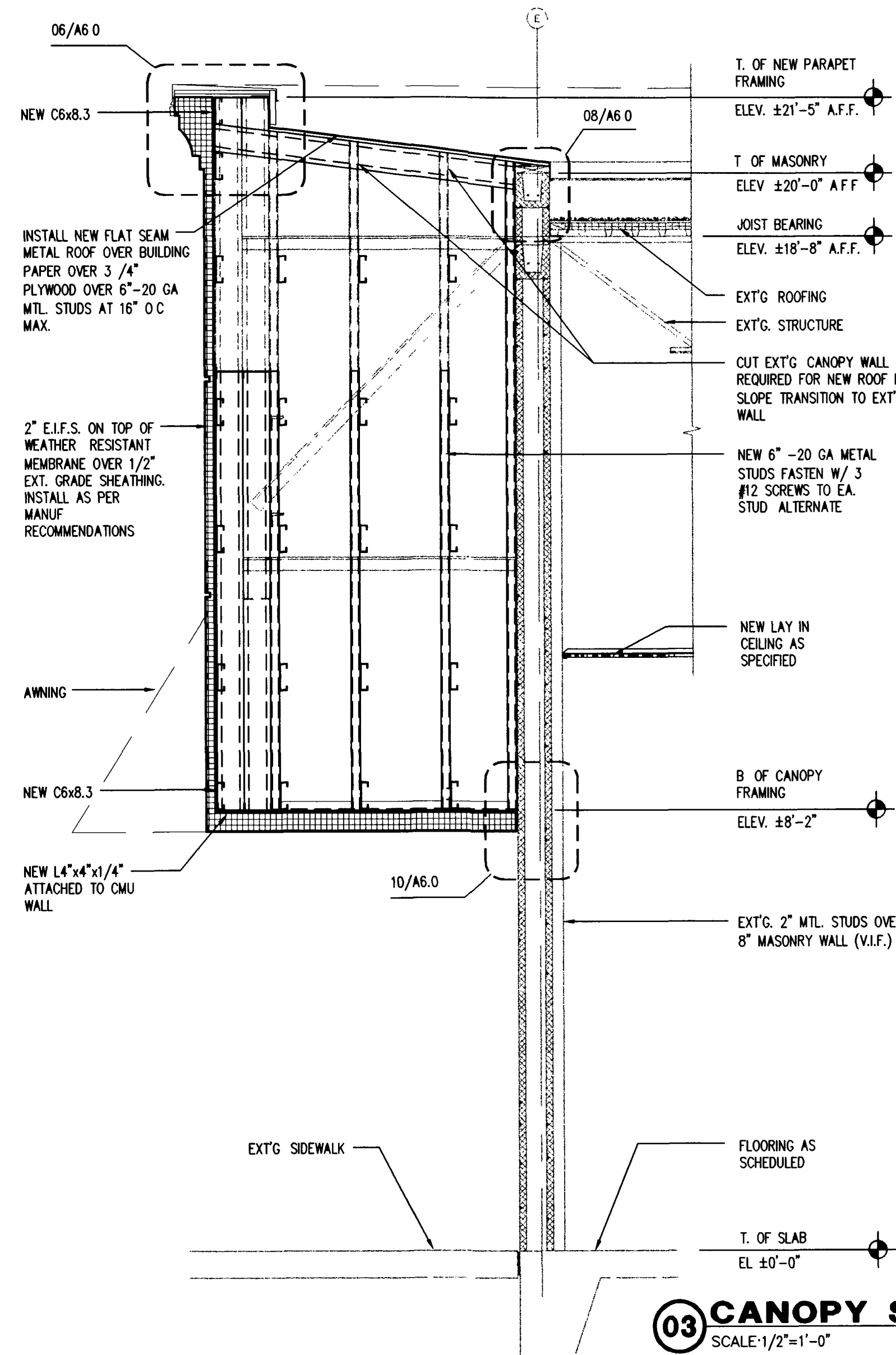
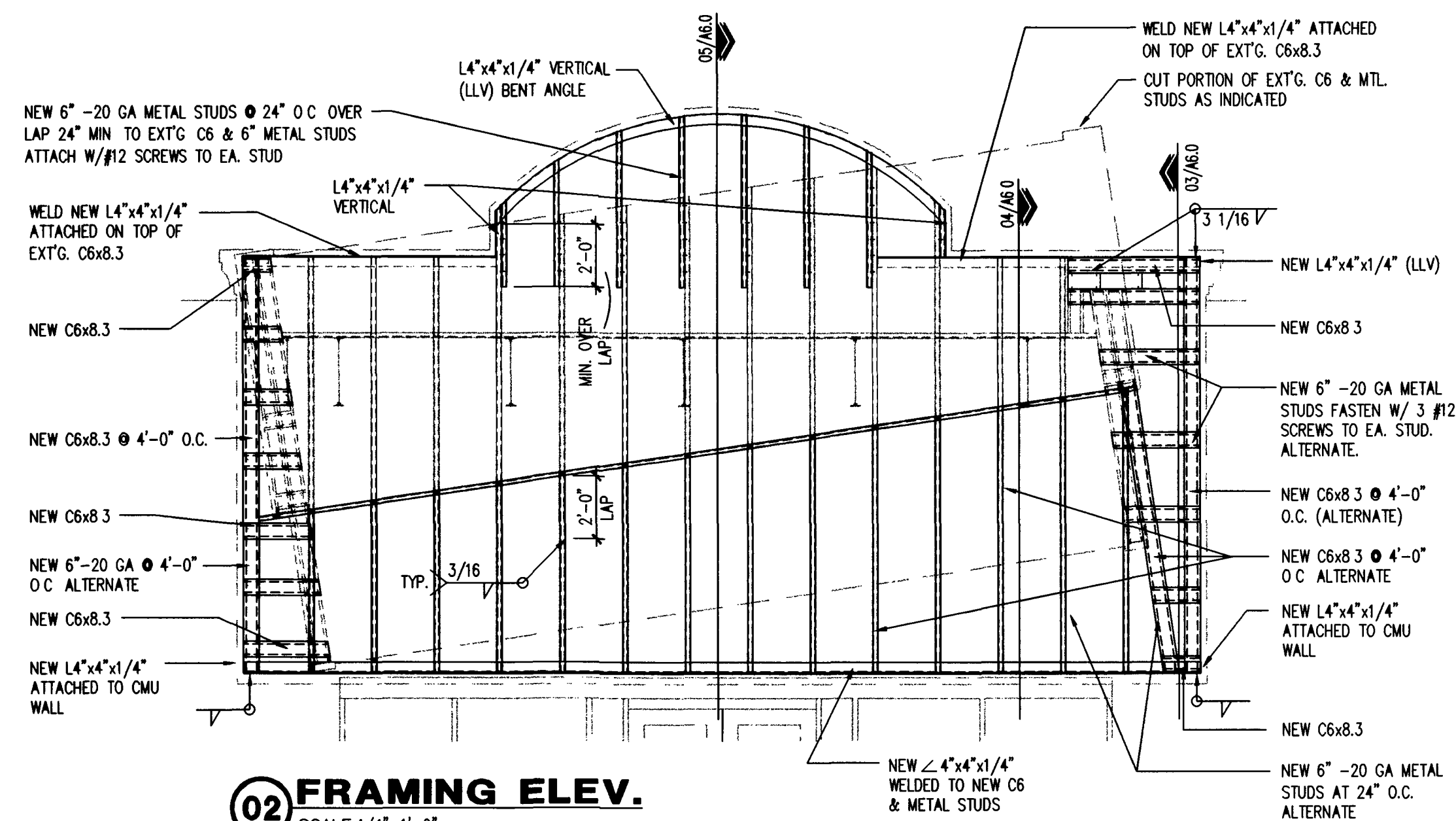
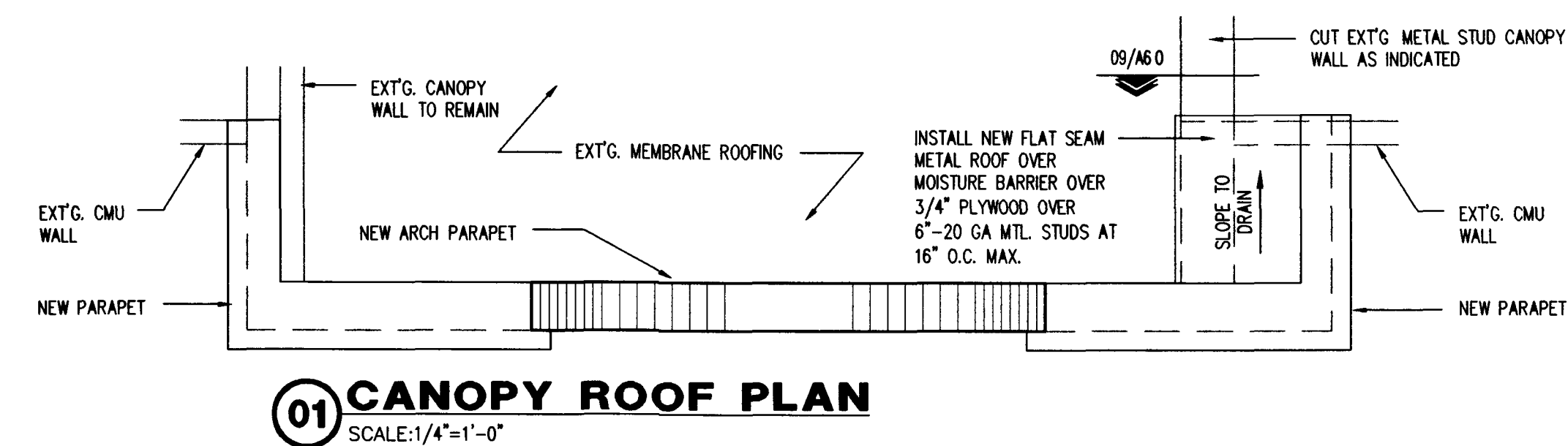
CHUCK E. CHEESE'S PIZZA

780

OCALA, FL

FLOOR FINISH PLAN

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EVANSTON, ILL. 60201
TEL. 312/464-6070

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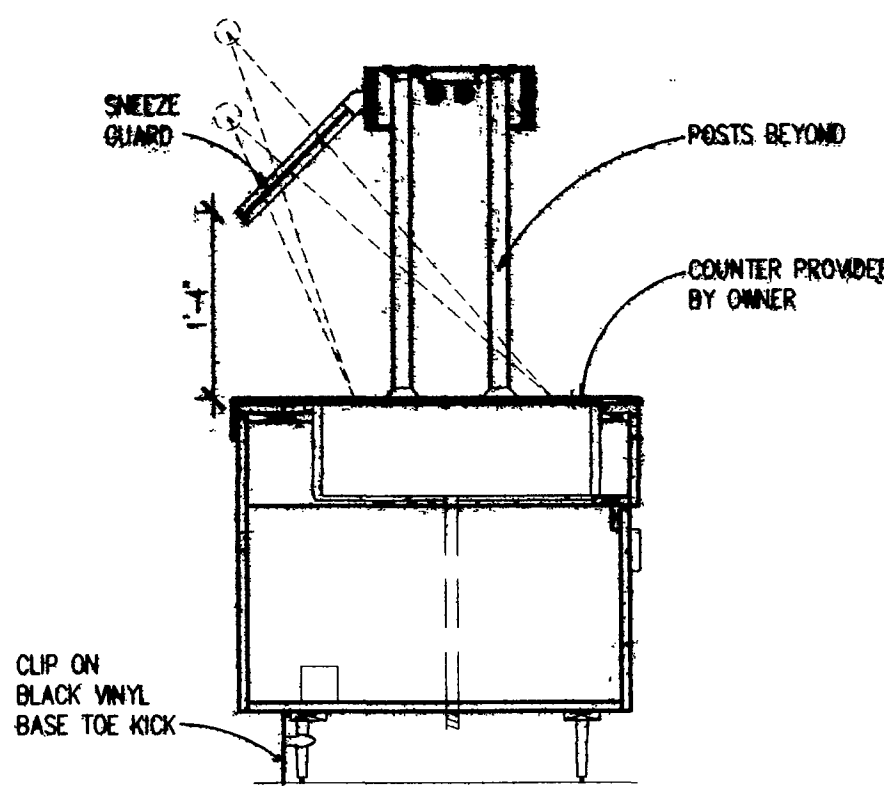
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Project Number
SB-780

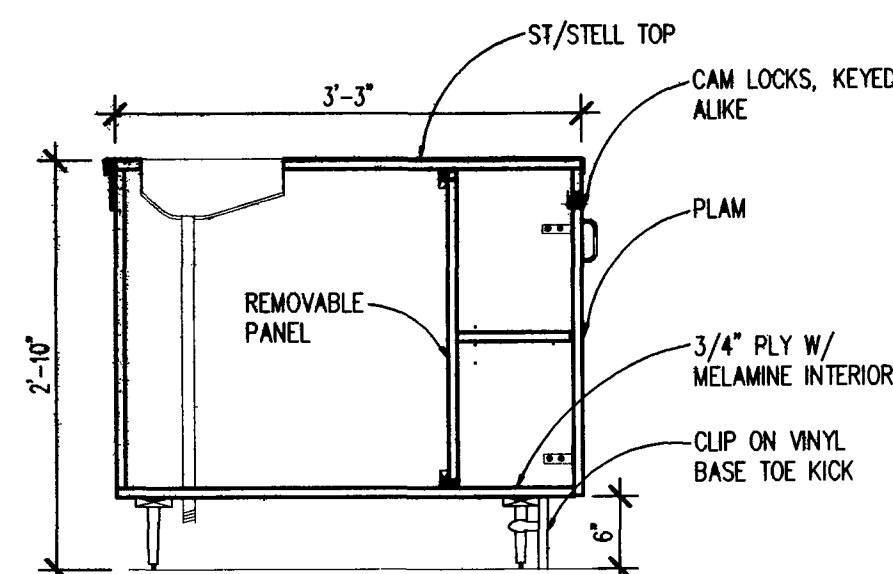
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of 13

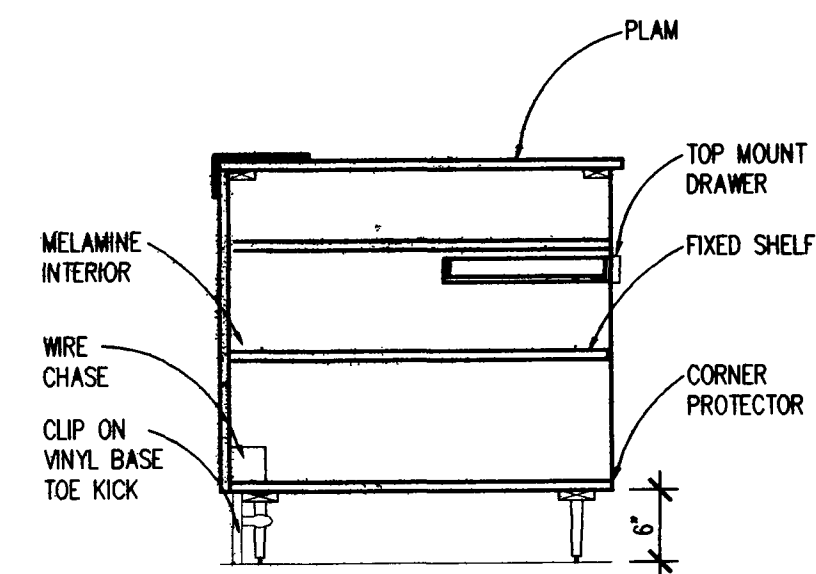
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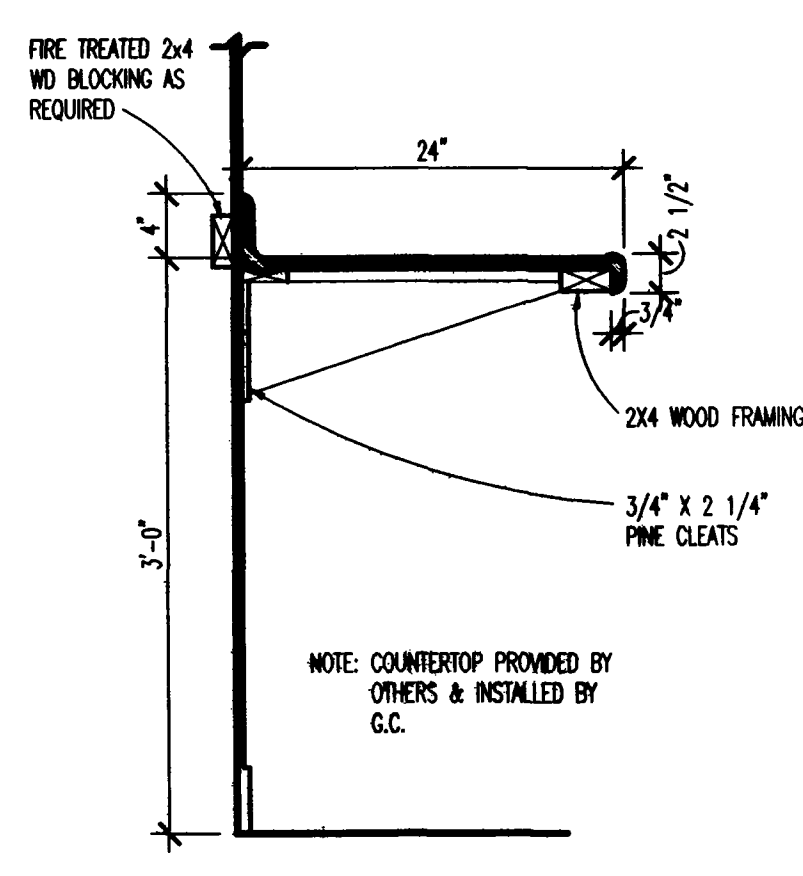
01 SNEEZE GUARD
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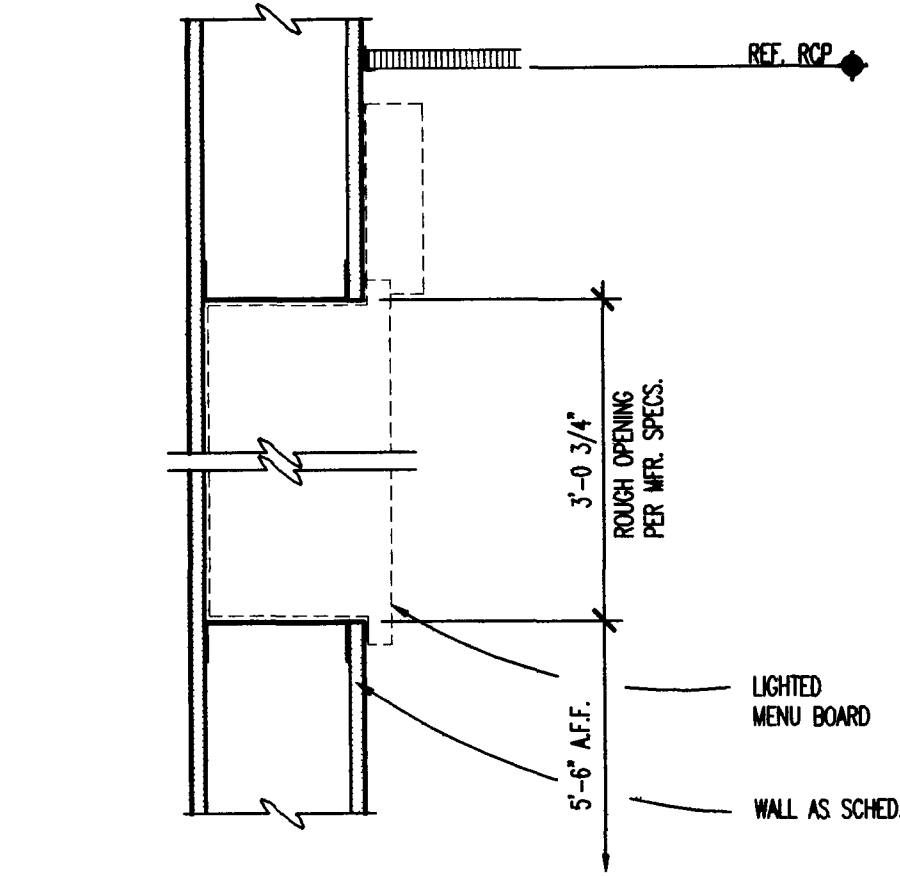
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SCALE: 1 1/2"=1'-0"



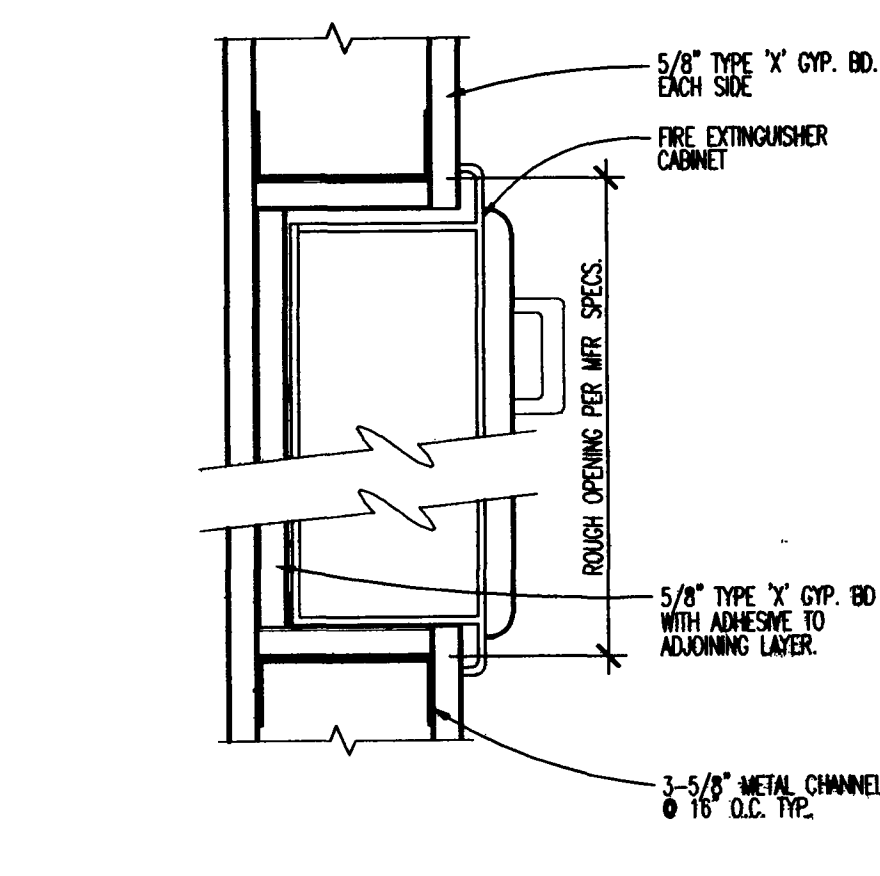
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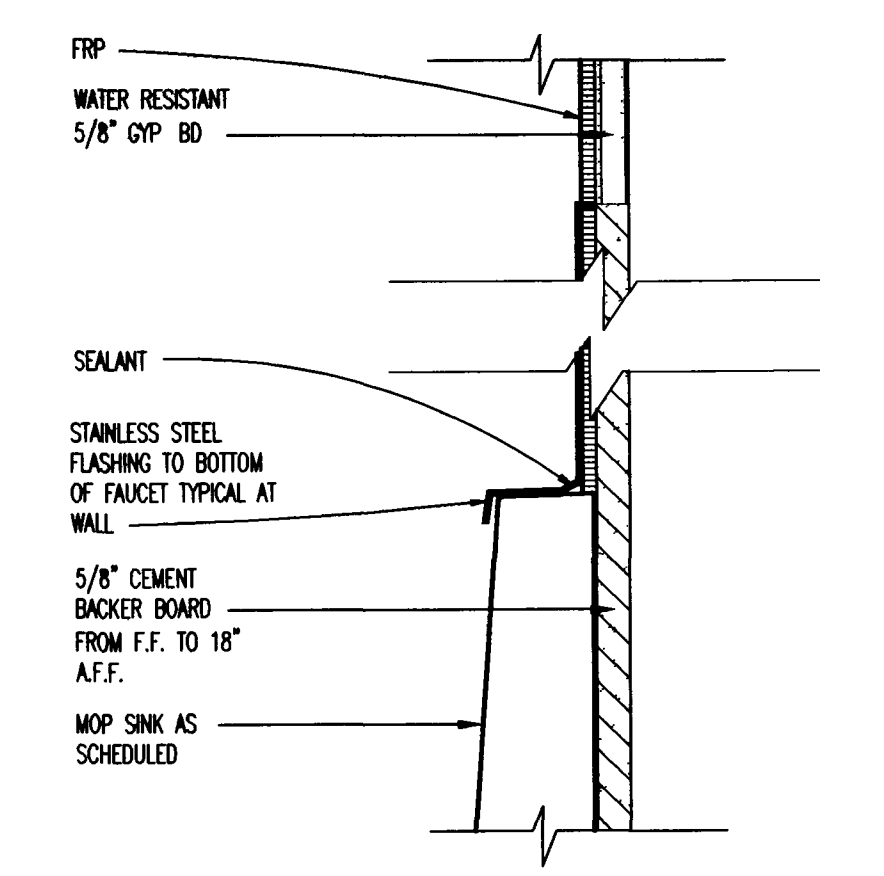
04 TECH. COUNTER
SCALE: 1"=1'-0"



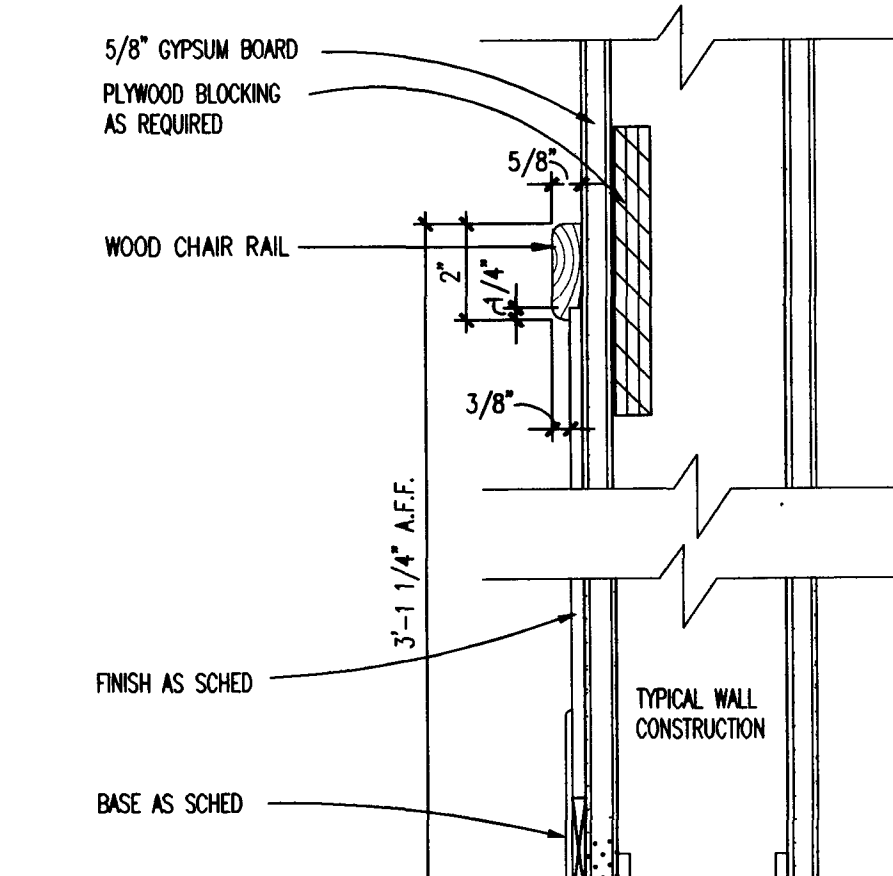
05 MENU BOARD
SCALE: 1 1/2"=1'-0"



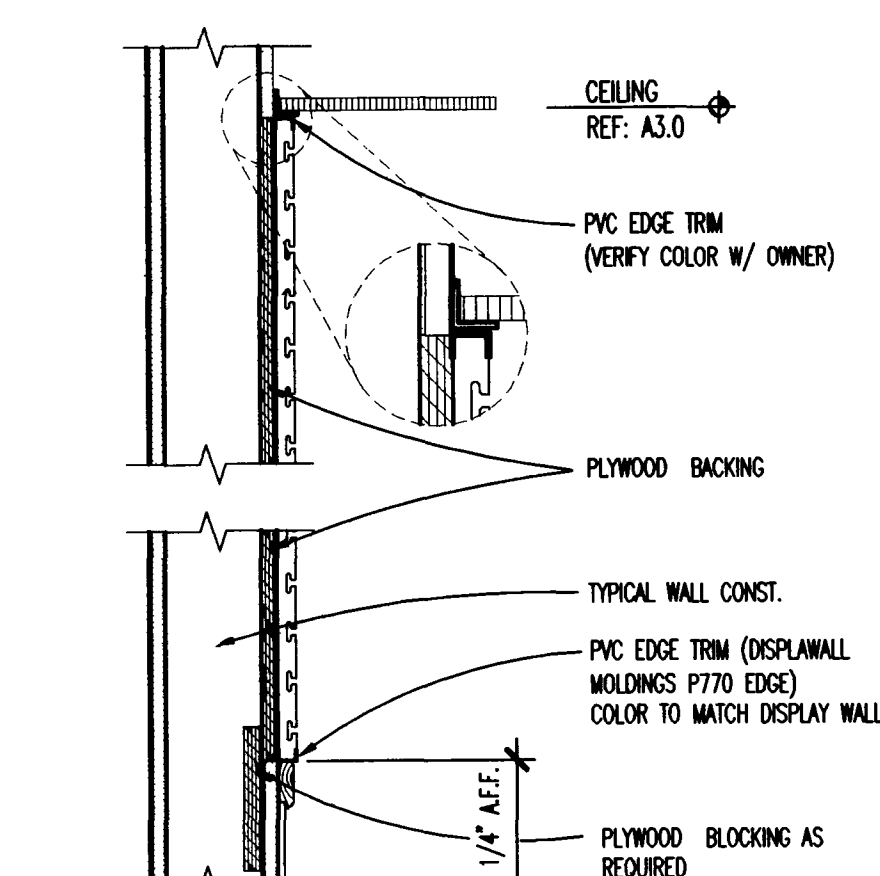
06 FIRE EXT. CABINET
SCALE: 3"=1'-0"



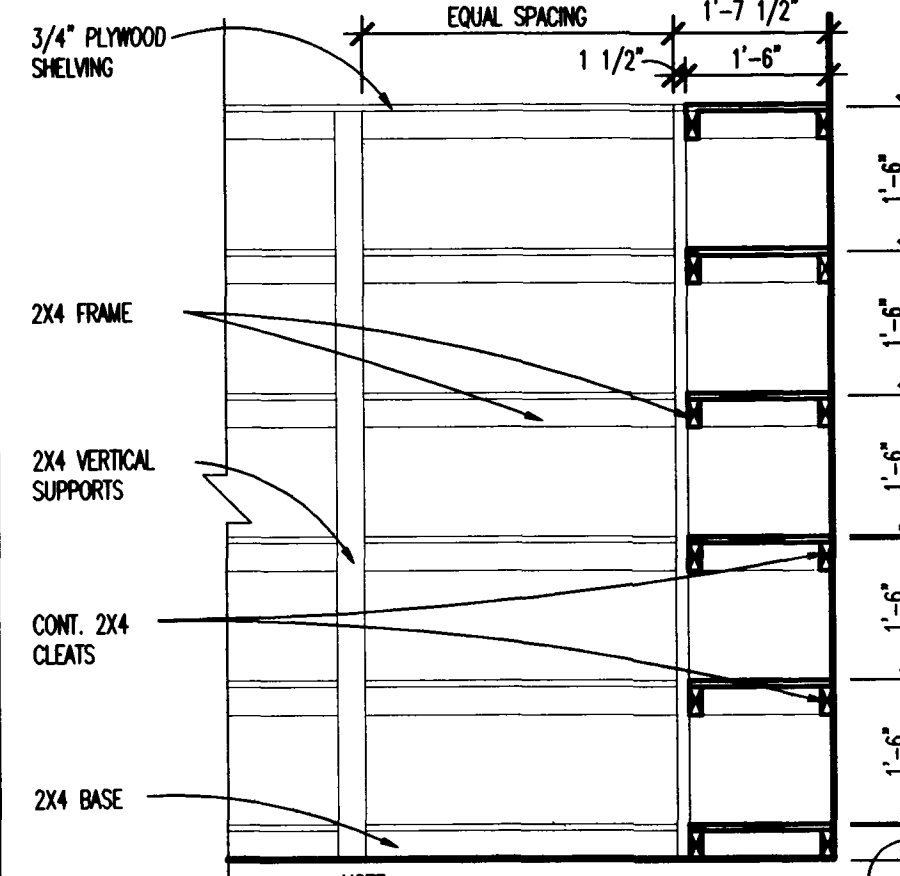
07 MOP SINK
SCALE: 3"=1'-0"



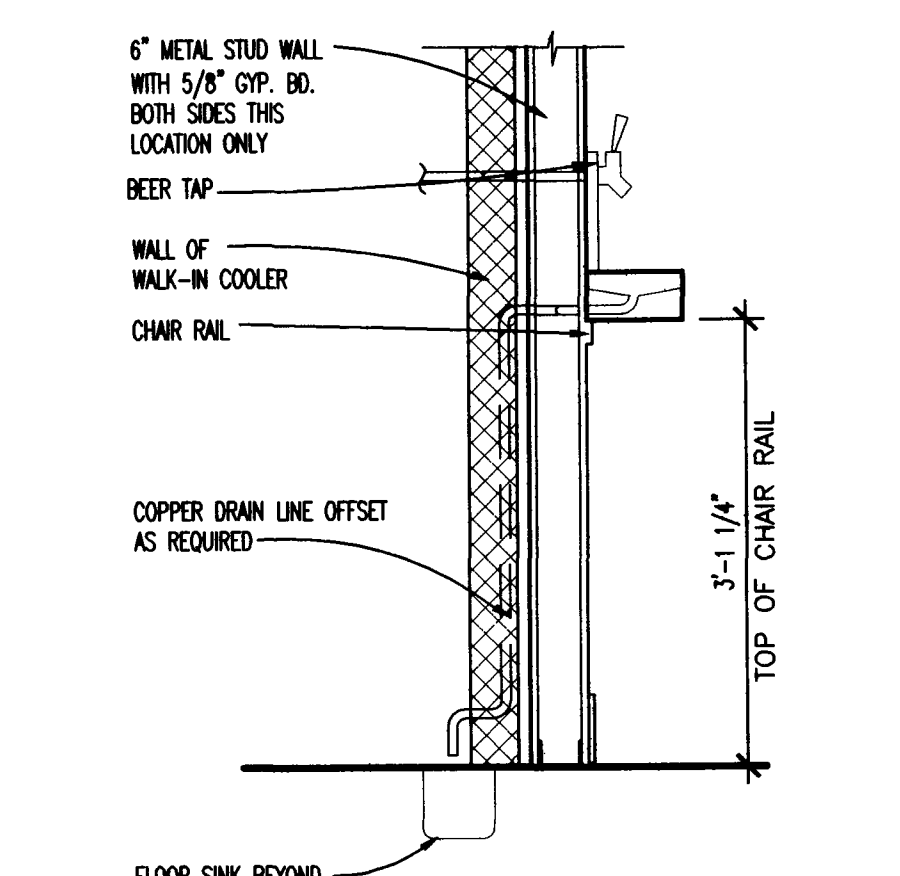
08 CHAIR RAIL
SCALE: 3"=1'-0"



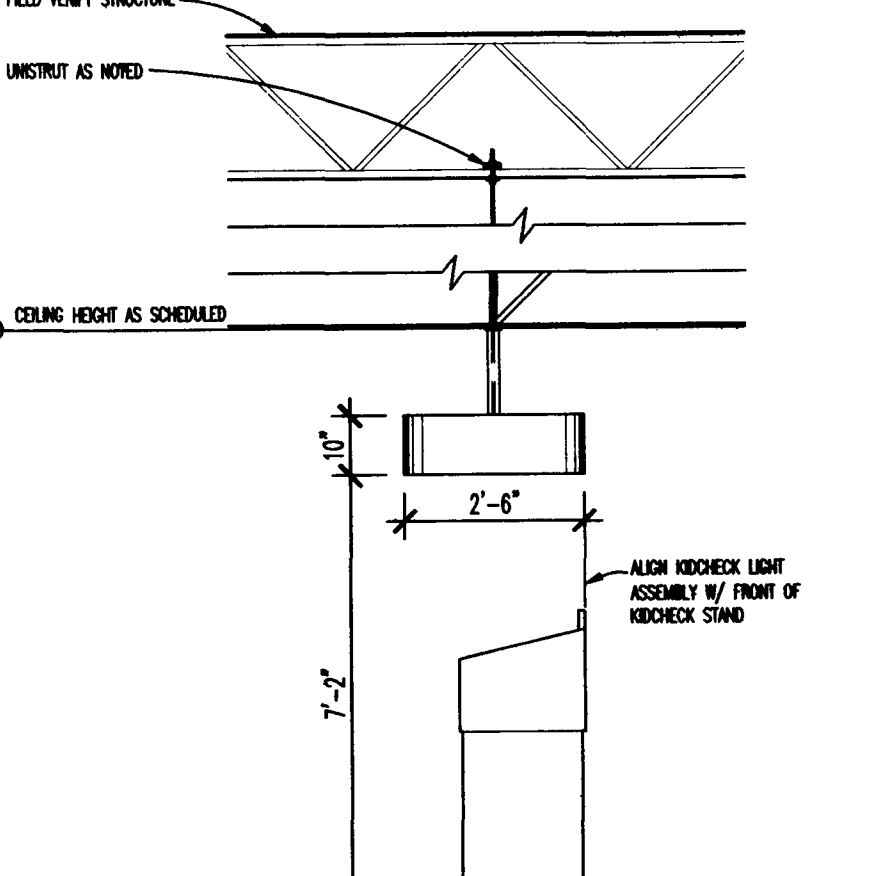
09 PRIZE DISP. WALL
SCALE: 1 1/2"=1'-0"



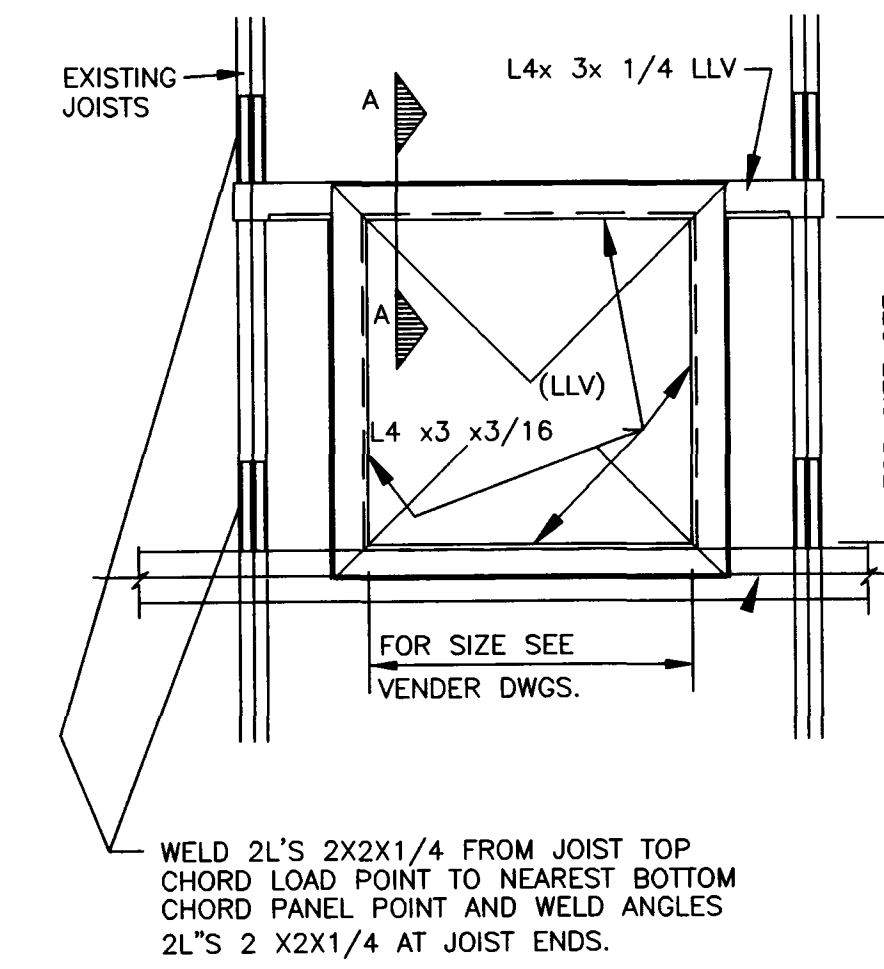
10 MERCH. STOR. SHELVING
SCALE: 1/2"=1'-0"



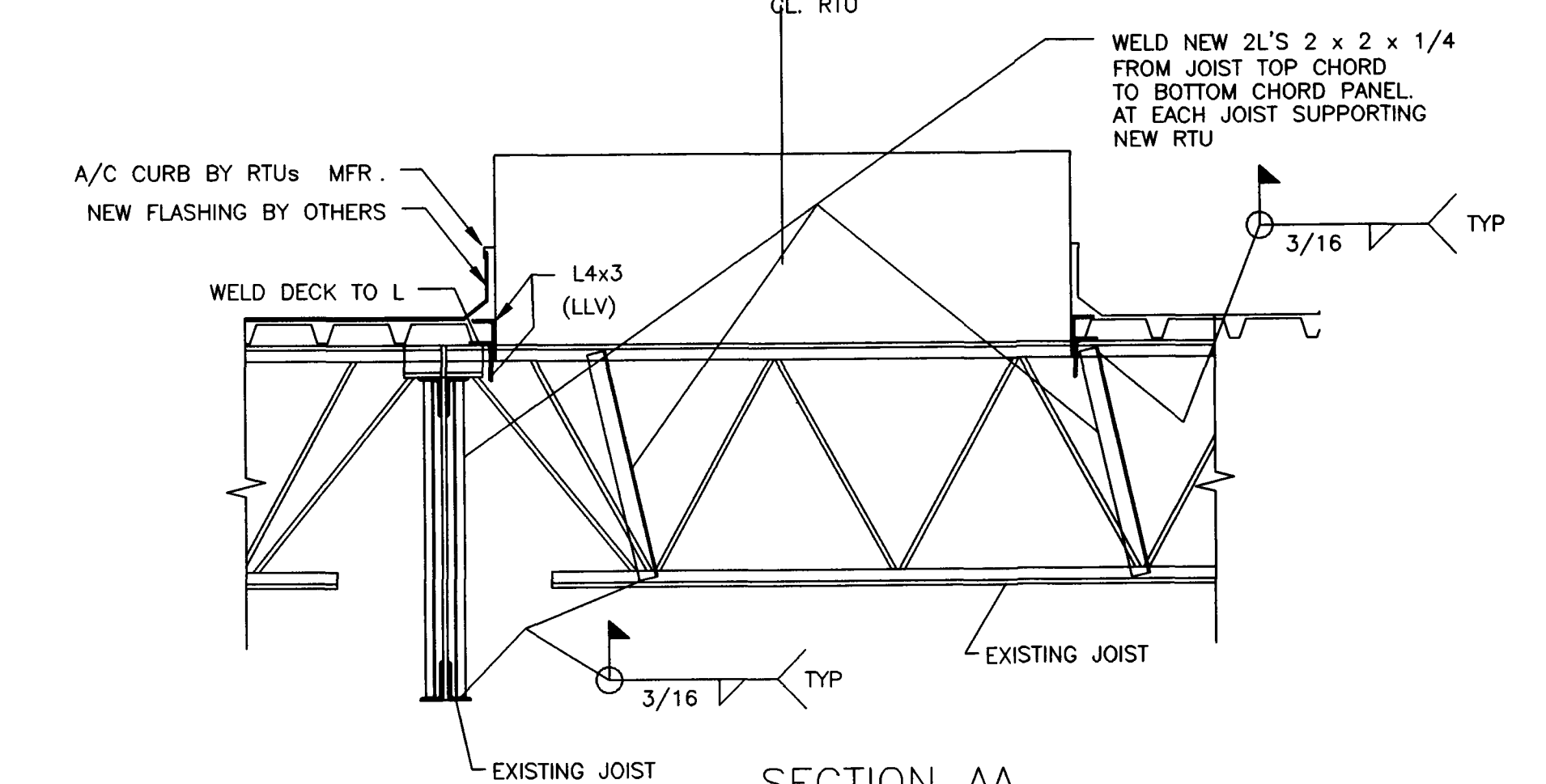
11 BEER TAP
SCALE: 3/4"=1'-0"



18 KIDCHECK ASSEMBLY
SCALE: 3/8"=1'-0"

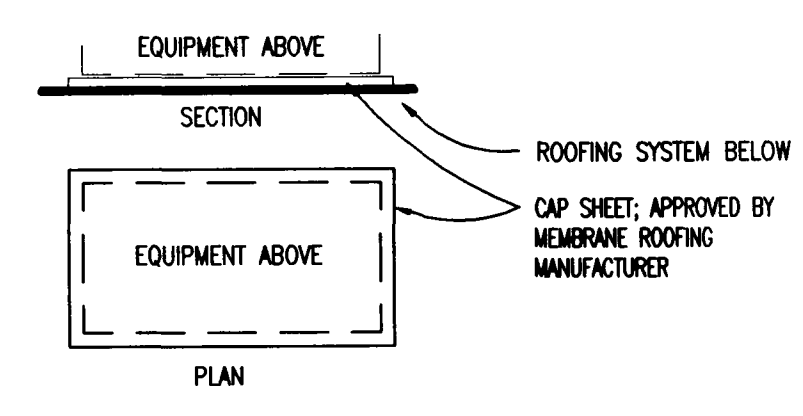


NOTE: FULLY WELD L'S TOGETHER WITH 3/16" FILLET WELD ALL AROUND AND TO JOIST. SEE RTU MFR. DRAWINGS FOR OPENING SIZE.

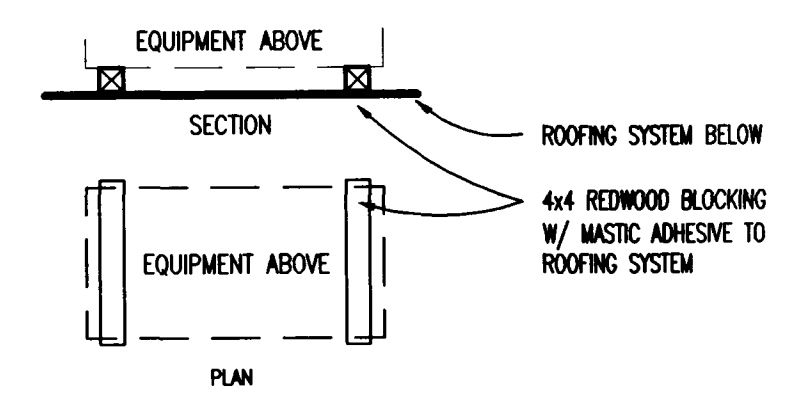


- NOTES:
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND DETAILS BEFORE FABRICATION OR CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER FOR POSSIBLE REDESIGN. ALL EXISTING JOIST, BEAMS & COLUMN SIZES ARE AS PER THE EXISTING DRAWINGS.
 - STRUCTURAL STEEL SHALL BE NEW STEEL AND SHALL CONFIRM TO THE A.I.S.C SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A-36.
 - WELDED CONSTRUCTION SHALL CONFORM TO AWS D-1.1, "STRUCTURAL WELDING CODE." ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX.
 - FOR ROOF TOP UNIT SIZE AND ROOF OPENING SIZES SEE MECHANICAL DRAWINGS.

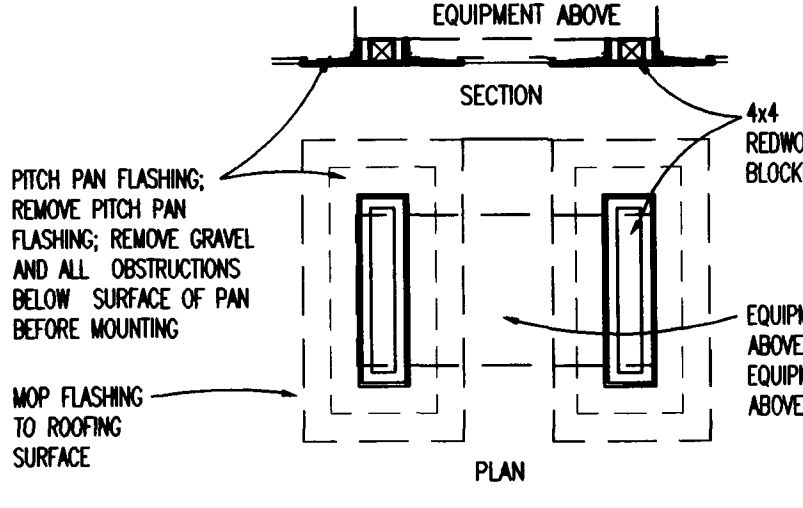
19 TYP. RTU SUPPORT FRAMING DETAIL AT NEW RTU
SCALE: NTS



MEMBRANE ROOF SYSTEM

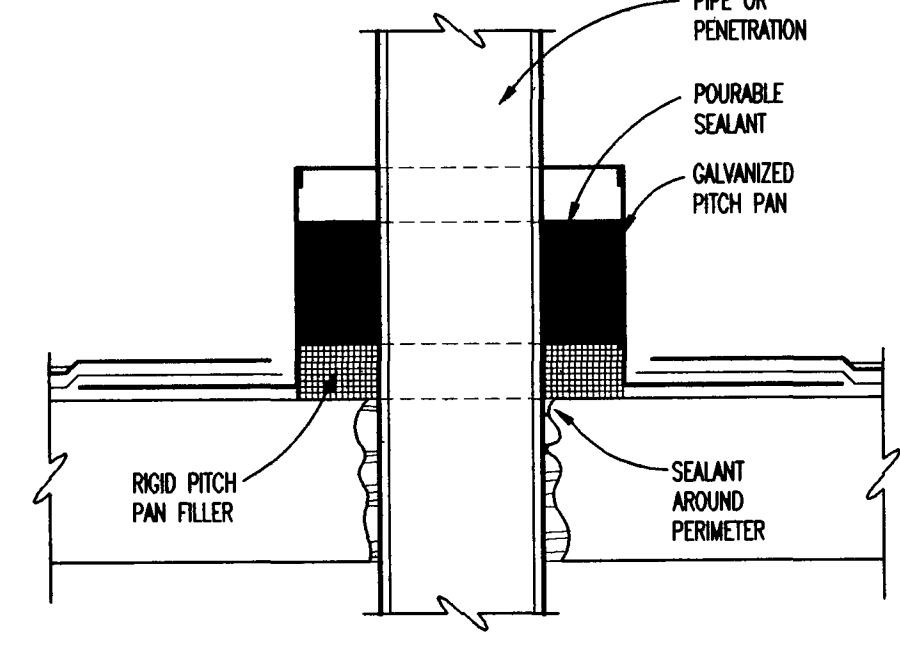


GRANULAR SURFACE ROOF SYSTEM

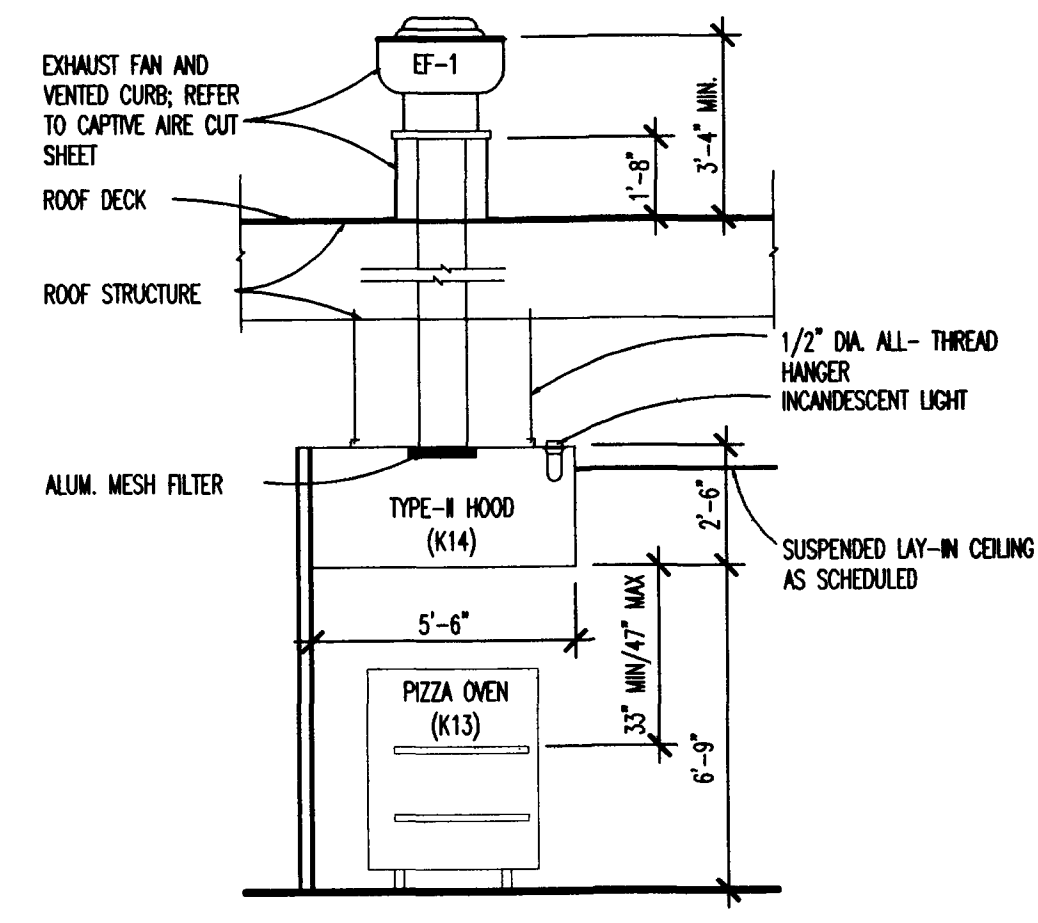


TAR, FELT, & GRAVEL ROOF SYSTEM

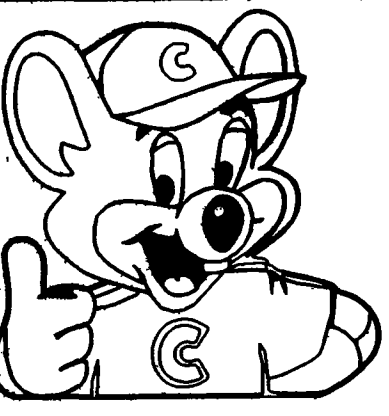
22 ROOF EQUIP. SUPPORT
SCALE 3/8"=1'-0"



17 ROOF PENETRATION
SCALE: 1"=1'-0"



23 HOOD
SCALE: 1/4"=1'-0"

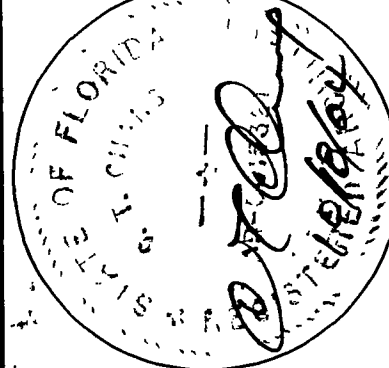


CHUCK E. CHEESE'S
ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

CHUCK E. CHEESE'S PIZZA

OCALA, FL

780
CHUCK E. CHEESE'S PIZZA.
3800 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

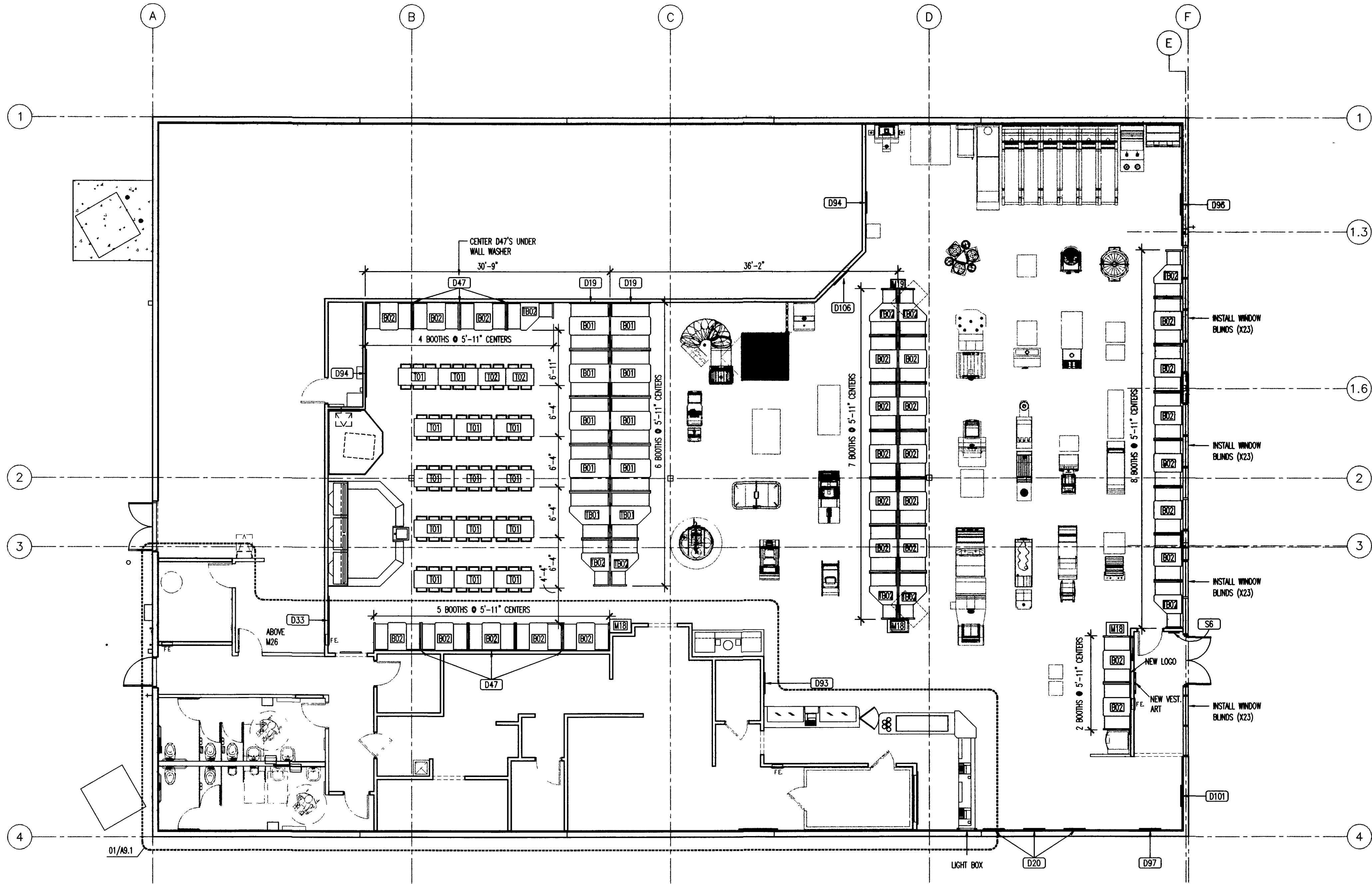


Date
10/18/2004

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Project Number
SB-780

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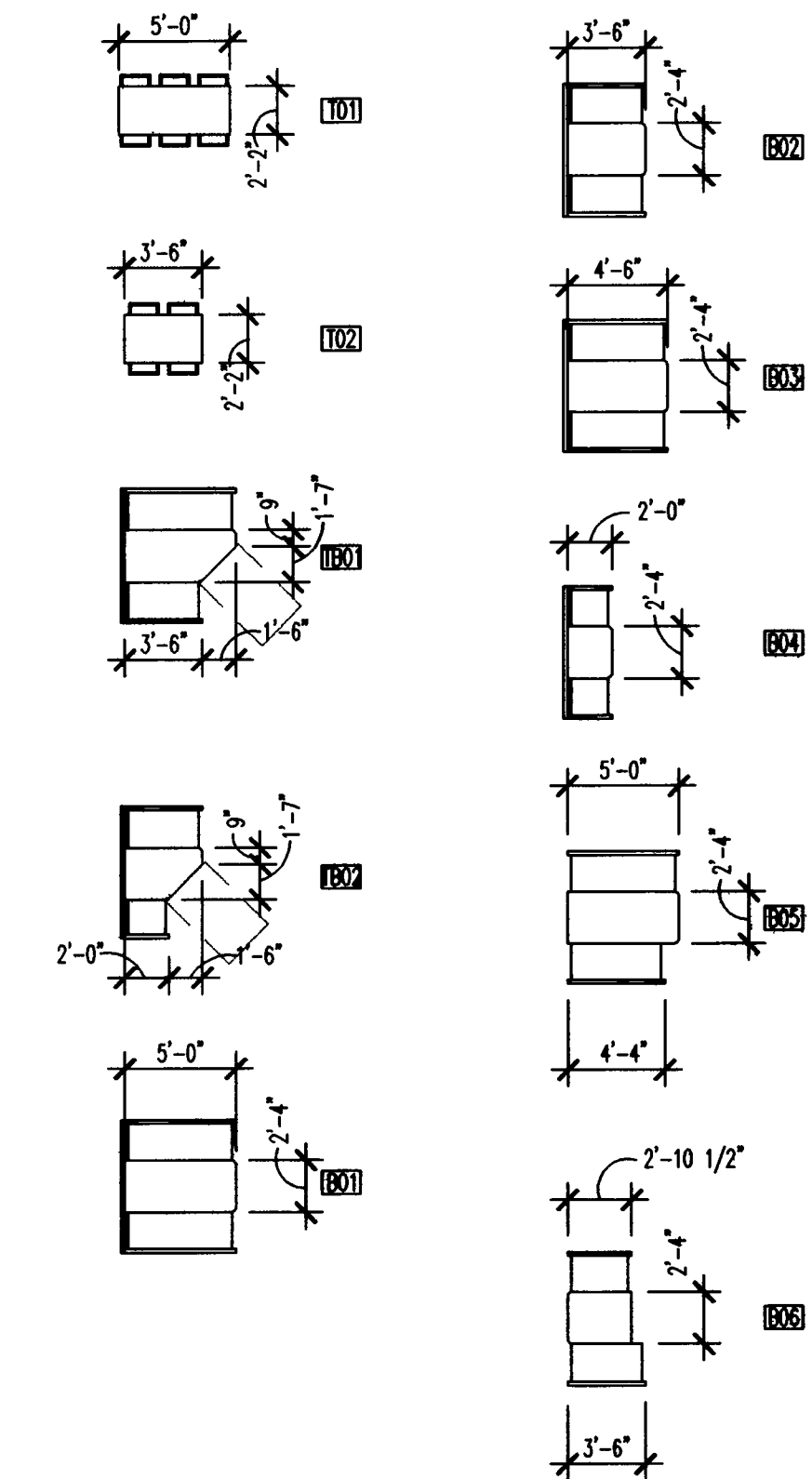
01 FURNISHING PLAN
SCALE: 1/8"=1'-0"

SIGNAGE SCHEDULE			LOCATION:	DATE:
S1	1	Entrance Sign (Hours of Operation)	Ajax	X
S5	1	Enter and Exit Logo Decals	Ajax	X New Style
S6	1	Recruiting Sign		X
S7				
S14	1	Pizza Circles	Progressive	X New Style
S15	3	Wet Floor Sign	Progressive	X New Style
S22	1	Restroom Directional	Progressive	X
S23	1	Restroom Marquees (Men & Women)	Progressive	X New Style
S24	1	Restroom Ovals (Chuck & Helen)	Progressive	X New Style
S26	1	ADA Signs (Plastic)	SPT/E. Don	X
S27				
S31	1	Logo (26")	Progressive	X New Logo
S40	1	New Vest Logo	Progressive	X
S48	2	Exit Only Sign	Ajax	X New Style
S49	1	Occupancy Sign (Total)	Ajax	X New Style
S50				
NOTE: ALL SIGNAGE NEW OR USED, IS INSTALLED BY DECOR INSTALLER. DECOR INSTALLER IS ALSO RESPONSIBLE FOR REMOVAL OF ANY UNUSED OR ELIMINATED ITEMS.				

FURNISHING NOTE:
1. TABLE TOP SPLASH REQUIRED AT LOCATIONS WITHOUT CENTER BOOTH DIVIDER WALL.
2. BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO MANUFACTURING.

DECORATION SCHEDULE			LOCATION:	DATE:
D12	1	Showroom Picture (Game Show)	SPT/BWC	X
D19	1	Quad-Warhol	SPT/BWC	X
D20	1	Tri-Warhol	SPT/BWC	X
D33	1	Film Reel Planters	Leslie Davies	X
D47	6	New Fram Pieces		X Progressive 460.00 each
D93	1	Men in Black	SPT/Corman	X
D94	1	Super Heroes	SPT/Corman	X
D96	1	Ice Hockey	SPT/Corman	X
D97	1	Soccer	SPT/Corman	X
D106	1	Spider Chuck	SPT/Corman	X
NOTE: ALL DECORATIONS, NEW AND USED, ARE INSTALLED BY DECOR INSTALLER. DECOR INSTALLER IS ALSO RESPONSIBLE FOR REMOVAL OF ANY UNUSED OR ELIMINATED ITEMS.				

FURNITURE LEGEND



SEATING

LOCATION	COUNT
SHOWROOM	131
KIDDE	35
SKILLS	34
TOTAL SEATING *	200
* BASED ON 24" BENCH LENGTH PER PERSON (BUILDING CODE)	

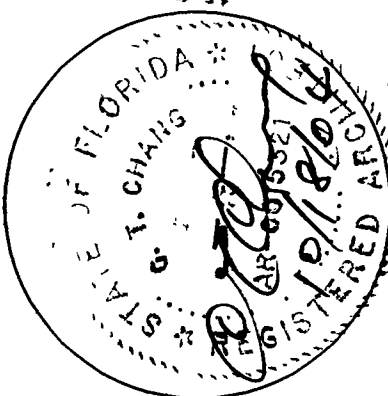


PERMIT TO CONSTRUCT
ARCHITECTURE - PLANNING - DESIGN
C. E. C. ENTERTAINMENT, INC.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

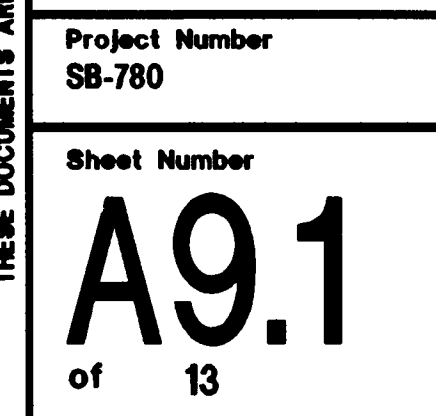
PERMIT TO CONSTRUCT

780
OCALA, FL

CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
FURNISHING PLAN



Date: 10/18/2004
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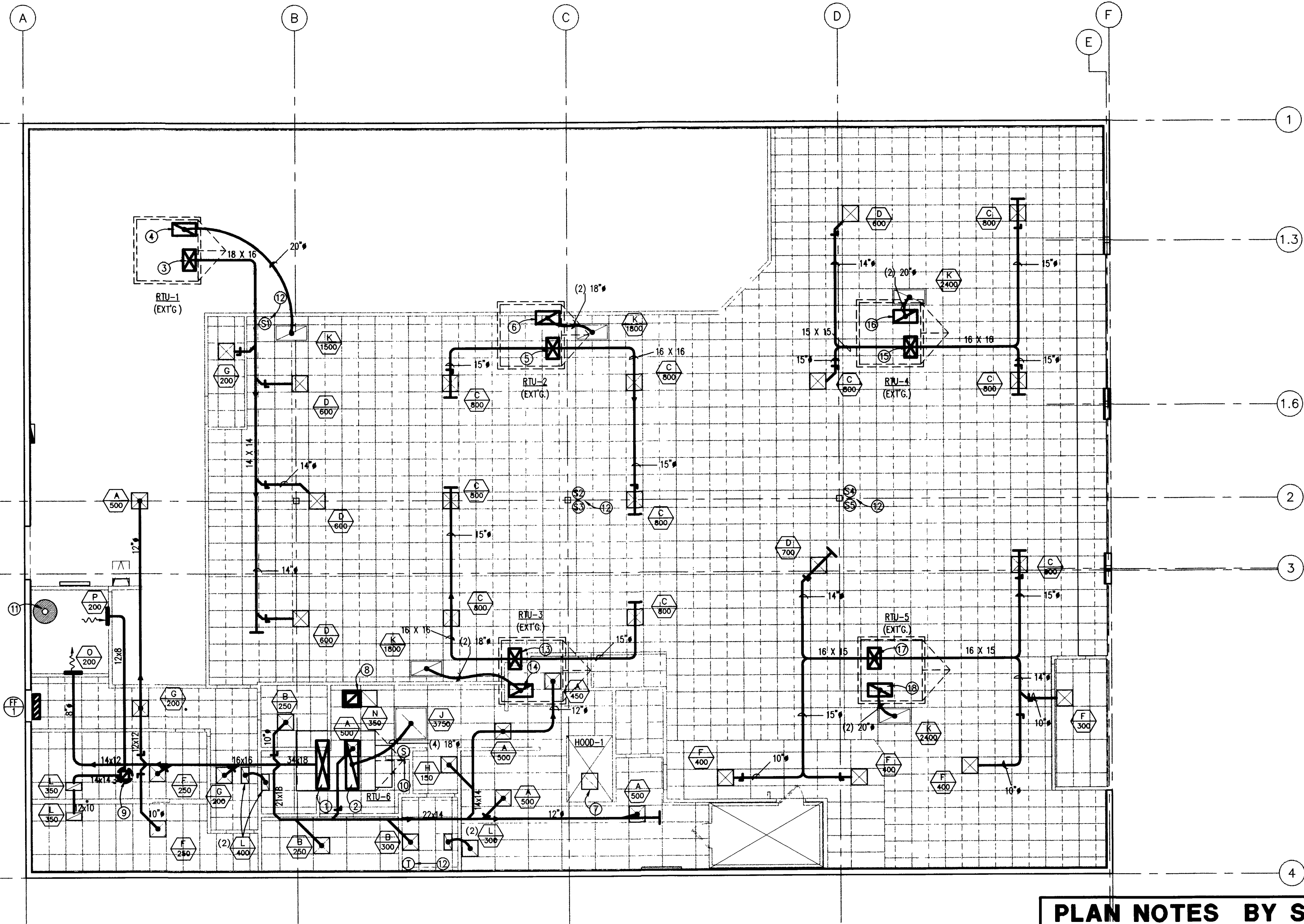
91780 / PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"

KITCHEN EQUIPMENT SCHEDULE										FIXTURE AND MISCELLANEOUS EQUIPMENT SCHEDULE									
EQUIP. NOT USED UNLESS SHOWN ON PLAN OR OTHERWISE NOTED.																			
#	DESCRIPTION	MANUF./MODEL	COMMENTS	FURNISH	INSTALL	HOOK	START	BLDG	#	DESCRIPTION	MANUF./MODEL	COMMENTS	FURNISH	INSTALL	HOOK	START	BLDG		
0 - OWNER	1 - KITCHEN EQUIPMENT SUPPLIER	2 - ELECTRICAL	3 - VENDOR	4 - OWNER	5 - KITCHEN EQUIPMENT SUPPLIER	6 - ELECTRICAL	7 - VENDOR	8 - OWNER	9 - KITCHEN EQUIPMENT SUPPLIER	10 - ELECTRICAL	11 - VENDOR	12 - OWNER	13 - KITCHEN EQUIPMENT SUPPLIER	14 - ELECTRICAL	15 - VENDOR	16 - OWNER	17 - KITCHEN EQUIPMENT SUPPLIER		
G - GENERAL CONTRACTOR	M - MILLWORK SUPPLIER	P - PLUMBING		G - GENERAL CONTRACTOR	M - MILLWORK SUPPLIER	P - PLUMBING			G - GENERAL CONTRACTOR	M - MILLWORK SUPPLIER	P - PLUMBING		G - GENERAL CONTRACTOR	M - MILLWORK SUPPLIER	P - PLUMBING				
K1	INSULATED SALAD PAN	CUSTOM FABRICATED (FT. LENGTH)	W/ SALAD INSERTS, SUPPLY PUC & CONNECT TO DRAIN	OM	G	GP	N/A	-	X01	SODADICE DISPENSER	"COKE" VENDOR	G C TO SUPPLY POWER	OM	G	GP	N/A	-		
K3	REACH-IN REFRIGERATOR	TRUE FOOD SERVICE/TS-23	W/ CASTERS AND 8 SHELVES	OM	G	GP	N/A	-	X02	CARBONATOR W/ SS SHELF	"COKE" VENDOR	G C TO SUPPLY POWER, WATER	OM	G	GP	N/A	-		
K4A	BEVERAGE BEER SYSTEM	GLASS TENDER	THROUGH-WALL BEER SYSTEM	OM	V	VP	N/A	-	X03	BAG & BOX RACK	"COKE" VENDOR	SET UNDER CARBONATOR	OM	G	GP	N/A	-		
K4B	BEVERAGE BEER SYSTEM	GLASS TENDER	LONG DRAW PUMP SYSTEM	OM	V	VP	N/A	-	X04	COKE VENDOR	"COKE" VENDOR	COKE VENDOR NEXT TO CARBONATOR	OM	G	GP	N/A	-		
K5	COFFEE MAKER	BUNN/CW115-2	AUTOMATIC COFFEE BREWER W/1 LOWER WARMER, HOT WATER FAUCET, PLASTIC FUNNEL AND POUR-OVER FEATURE	OM	G	GP	N/A	-	X05	BULK CO2 TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK	OM	G	GP	N/A	-		
K6	PROOFING RACK	METRO/SUPER ERCTA SHELVE	36"x48" WITH CASTERS	OM	G	GP	N/A	-	X06	BULK CO2 TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK	OM	G	GP	N/A	-		
K9	SS WALL PANELING	CUSTOM FABRICATED	SS TRIM INSTALLED UP TO BOTTOM OF HOOD AND MAKE TABLE	OM	G	GP	N/A	-	X07	HELIUM TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK	OM	G	GP	N/A	-		
K10	REFRIG. PIZZA MAKE TABLE	KARAK K9-6	2 SIDED REFRIGERATED PIZZA TABLE W/ TICKET MINDER AND NIGHT COVERS AND CASTERS	OM	G	GP	N/A	-	X08	SAFE	MC GUNN QD 1021	REQUIRES OUTLET @ 10" A.F.F.	OM	G	GP	N/A	-		
K10B	REFRIG. PIZZA MAKE TABLE	TRUE FOOD SERVICE/TPP-83	1 SIDED REFRIGERATED PIZZA TABLE W/ NIGHT COVERS AND CASTERS	OM	G	GP	N/A	-	X09	FILE CABINET	"	FOUR DRAWER FILE CABINET IN MANAGERS OFFICE & TWO DRAWER FILE CABINET IN TECH OFFICE	OM	G	GP	N/A	-		
K13	DBL. STACK PIZZA OVEN	LINCOLN IMPERGEN/1450	GAS/ELECTRICAL CONNECTIONS	OM	V	VP	N/A	-	X10	FILE CABINET	"	TWO DRAWER FILE CABINET IN MANAGER & TECH OFFICE (THIS IS ONLY USED FOR SMALL MARKET STORES)	OM	G	GP	N/A	-		
K14	EXHAUST HOOD	CAPTIVE AIRE #8624VH1	INCLUDES CURB, DUCTWORK BY G.C.	OM	G	GP	N/A	-	X11	CASH REGISTER SYSTEM	IBM	PROVIDE DEDICATED POWER & PHONE OUTLETS (INCLUDING KITCHEN PANTRY)	OM	G	GP	N/A	-		
K16A	SS CUT TABLE	CUSTOM FABRICATED	72" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @ 72" A.F.F. (GRAH-72 (240V))	OM	G	GP	N/A	-	X12	TOKEN DISPENSERS	"BPT	PROVIDE POWER	OM	G	GP	N/A	-		
K16B	SS CUT TABLE	CUSTOM FABRICATED	60" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @ 72" A.F.F. (GRAH-60 (240V))	OM	G	GP	N/A	-	X13	AIR COMPRESSOR & OXYGEN	INGERSOLL RAND 2475N5 & D815	SEE DETAIL	OM	G	GP	N/A	-		
K19	SS CORNER GUARDS	CUSTOM FABRICATED	CUT TO FIT APPLICATION IN THE FIELD	OM	G	GP	N/A	-	X14	EMPLOYEE MONITOR	13" PANASONIC	TV SITS ON TOP OF SHELF IN EMPLOYEE BREAK AREA	OM	G	GP	N/A	-		
K20A	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE/TSU-46-8	WORK TABLE W/ CASTERS, 48 1/4"x30 1/2"x16	OM	G	GP	N/A	-	X15	MANAGER'S SECURITY MONITOR/HANGER	"	MOUNT HANGER IN MANAGERS OFFICE	OM	G	GP	N/A	-		
K20B	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE/TSU-127-8	WORK TABLE W/ CASTERS, 27 1/4"x30 1/2"x16	OM	G	GP	N/A	-	X16	27" MONITOR/HANGER	LUCASEY/JVC	MOUNT PER DETAIL	OM	G	GP	N/A	-		
K21	DUNNAGE RACK	WIN-HOLD/TSQ-3-1224	24"x36" AT OVEN	OM	G	GP	N/A	-	X17	36" MONITOR/HANGER	LUCASEY/JVC	MOUNT PER DETAIL	OM	G	GP	N/A	-		
K22	DUNNAGE RACK	WIN-HOLD/TSQ-4-1224	1-24"x48" IN COOLER UNDER KEGS, AND 1-24"x48" IN DRY STORAGE AREA	OM	G	GP	N/A	-	X18	ROPE & STANTION PACKAGE	LAWI	FIELD VERIFY NUMBER OF POLES AND HEAD RECD (CORE DRILLED)	OM	G	GP	N/A	-		
K23	DOUGH MIDER	VARIMEX/ERW-60	VERIFY CLOCKWISE ROTATION AND DISCONNECT @ 42" A.F.F.	OM	G	GP	N/A	-	X19	CONCRETE STANDS	PROGRESSIVE/CUSTOM	"	OM	G	GP	N/A	-		
K24	SS BUNNING TABLE	CUSTOM FABRICATED	30"x60" W/ BACKSLASH AND CASTERS	OM	G	GP	N/A	-	X20	RUBBER TRASH CART	EDON	"	OM	G	GP	N/A	-		
K26	SS DOUGH TABLE	CUSTOM FABRICATED	W/ UNDERSHELF AND CASTERS (VERIFY LENGTH ON PLAN)	OM	G	GP	N/A	-	X21	BALLON HANGER	EDON J56	"	OM	G	GP	N/A	-		
K29	DOUGH ROLLER	SOMERSET IND. COR-2000	OUTLET @ 50" A.F.F.	OM	G	GP	N/A	-	X22	MOP & BROOM HANGERS	INSORC	WALL MOUNTED, SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K31A	SS VEG. PREP SINK/WATER	CUSTOM FABRICATED	S.S. PREP SINK 72" W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF	OM	G	GP	N/A	-	X23	WINDOW BLINDS	ECOLAB	W/ALY REQUIRED - INSTALL ON WEST AND SOUTH ELEVATIONS (MANUAL OPERATION)	OM	G	GP	N/A	-		
K31B	SS VEG. PREP SINK/WATER	CUSTOM FABRICATED	S.S. PREP SINK 58" W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF	OM	G	GP	N/A	-	X24	ECOLAB SYSTEM	ECOLAB	MOUNTS @ DISHWASHER & MOP SINK (G.C. TO COORDINATE)	OM	G	GP	N/A	-		
K34A	DOUBLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICES/25F	W/ CASTERS AND 8 SHELVES	OM	G	GP	N/A	-	X25	SECURITY SYSTEM	EDON	G.C. TO COORDINATE INSTALLATION	OM	V	VP	N/A	-		
K34B	SINGLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICES/25F	W/ CASTERS AND 8 SHELVES	OM	G	GP	N/A	-	X26	CAN OPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	OM	G	GP	N/A	-		
K35A	WALK-IN COOLER	KOLPAK 9-8 1/2" x 17-4 1/4" x 9-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELEC. CONNECT (INCLUDE DR. STOPS @ CLSR. HT)	OM	K	KE	N/A	-	X27	KNIFE SHARPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	OM	G	GP	N/A	-		
K35B	WALK-IN COOLER	KOLPAK 9-8 1/2" x 13-6" x 9-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELEC. CONNECT (INCLUDE DR. STOPS @ CLSR. HT)	OM	K	KE	N/A	-	X28	TRAINING AIDKIT, SIGNAGE	"	COORDINATE W/ TRAINING MGR. TO LOCATE - NOT SHOWN ON PLAN	OM	G	GP	N/A	-		
K35C	WALK-IN COOLER	KOLPAK 9-8 1/2" x 13-6" x 9-6 1/4"	CONTRACTOR INSTALLS CURB WITH METAL CAP & ELEC. CONNECT (INCLUDE DR. STOPS @ CLSR. HT)	OM	K	KE	N/A	-	X29	MARKETINGS LIGHT BOX	STB	WALL MOUNTED, SEE INTERIOR ELEVATIONS - 2 EA FOR LARGE MARKET LOCATION / 1 EA FOR SMALL MARKET LOCATION	OM	G	GP	N/A	-		
K36	FROZEN MERCHANDISER	FAST CORP/FR20	72 1/4" H x 39 1/4" W x 39.5" D	OM	G	GP	N/A	-	X30	BOTTOM CANDY HANGER	PROGRESSIVE/CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K39	COOLER SHELVE	METRO/METROSEAL II	W/ CASTERS, (5) SHELVE (DUNNAGE ON BOTTOM)	OM	G	GP	N/A	-	X31	MENU BOARD	CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K41	BUN RACKS, 20 SHELVE	WIN-HOLD/11-8026	INCLUDES CASTERS - 5 EA FOR LARGE MARKET LOCATION / 4 EA FOR SMALL MARKET LOCATION	OM	G	GP	N/A	-	X32	DOOR MIRROR	"	WALL MOUNTED	OM	G	GP	N/A	-		
K45A	ICE MAKER	MANITOWOC/QY-1894N	ICE BIN: FOLLETT CORPORATION/SIS 1855S-60 W/ FILTER SYSTEM	OM	G	GP	N/A	-	MILLWORK										
K45B	ICE MAKER	MANITOWOC/QY-1894N	ICE BIN: MANITOWOC/S-90 W/ FILTER SYSTEM	OM	G	GP	N/A	-	#	DESCRIPTION	MANUF./MODEL	COMMENTS	FURNISH	INSTALL	HOOK	START	BLDG		
K46	10" DISH TABLE W/ 3 COM. SINK	CUSTOM FABRICATED	INCLUDES SCRAP SINK, FAUCETS, SPRAYER AND STANDOFF	OM	G	GP	N/A	-	X33	CUR CADDY	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K48	DISHWASHER SINK	JACKSON/CONSERVER XL LOW TEMP	CONTRACTOR TO CONNECT ELECTRICAL AND DRAIN	OM	G	GP	N/A	-	X34	PRIZE CADDY & SHELVE	MIDWEST/CUSTOM	INCLUDES: SLATWALL HANGERS	OM	G	GP	N/A	-		
K50	SS CLEAN DISH TABLE	CUSTOM FABRICATED		OM	G	GP	N/A	-	X35	SNEEZE GUARD	MIDWEST/CUSTOM	OVERHANGS RECESSED CROOKS, SEE DETAIL	OM	G	GP	N/A	-		
K54	DRY STORAGE SHELVE	METRO/SUPER ERCTA	REFER INSTALLATION INSTRUCTIONS	OM	G	GP	N/A	-	X36	BEVERAGE COUNTER	MIDWEST/CUSTOM	SS TOP, SEE DETAIL	OM	G	GP	N/A	-		
K57	4-7" SS WALL SHELF	NEW AGE/1254	MOUNT @ 5-2" A.F.F. PROVIDE BLOCKING	OM	G	GP	N/A	-	X37	KID CHICK HANGER	MIDWEST/CUSTOM	INCLUDES: BACKLIGHT, CAMERA AND MONITORS, SEE DETAIL	OM	G	GP	N/A	-		
K58	5-0" SS WALL SHELF	NEW AGE/1274	MOUNT @ 5-2" A.F.F. PROVIDE BLOCKING	OM	G	GP	N/A	-	X38	SECURITY FIXTURE	"	"	OM	G	GP	N/A	-		
K62	MOP SINK	FIAT/TSB-200	REFER TO PLUMBING SCHEDULE	OM	G	GP	N/A	-	X39	KID CHECK STAND	MIDWEST/CUSTOM	SEE DETAIL	OM	G	GP	N/A	-		
K63	HAND SINK W/ FAUCET	ADVANCE TACO/TPS-50	W/ MIST, GLAZES, SOAP AND TOWEL DISPENSERS	OM	G	GP	N/A	-	X40	MANGR DESK W/CABINETS	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K64	COTTON CANDY MACHINE	GOLD METAL PRODUCTS/3008E	INCLUDES SS BASE, GOLD MEDAL/3036 AND UNIFLOSS TOP HALF, 3035 W/ CASTERS	OM	G	GP	N/A	-	X41	TECH W/C, BENCH W/ CABINETS	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K67	CHEMICAL STORAGE CABINET	KELMAK EQUIPMENT/SS-1636	MOUNT ON WALL NEXT TO MOP SINK 5-6" A.F.F. HOLD ECOLAB TIGHT BELOW CABINET, SEE ELEVATIONS	OM	G	GP	N/A	-	X42	EMP. BRK. CNTR. & UPPER CAB.	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K70	STORAGE RACK	METRO/SUPER ERCTA	16"x48"	OM	G	GP	N/A	-	X43	SHELF W/ 2" DIA. ROD	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	OM	G	GP	N/A	-		
K71	AIR CURTAIN	NARS AIR DOOR/1021	ABOVE DELIVERY KITCHEN DOOR	OM	G	GP	N/A	-	X44	THANK YOU BOX	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
K80	ROLLING CAGE CUT TABLE	METRO/BC-2836-34	NOT SHOWN ON PLAN / ONE EACH PER LOCATION	OM	G	GP	N/A	-	X45	LARGE W/STORAGE	"	"	OM	G	GP	N/A	-		
K82	2-0" SS COFFEE SHELF	CUSTOM FABRICATED	FOR COFFEE - MOUNT @ 32" A.F.F. - PROVIDE OUTLET @ 38" A.F.F. FLOOR SINK BELOW FOR COFFEE BEER PAN	OM	G	GP	N/A	-	X46	EMP. COAT RACK/BOX, UNIT	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.1 FOR LOCATIONS	OM	G	GP	N/A	-		
K99	BUMPER RAILS	KASON/CUSTOM FABRICATED	20-4" LENGTH W/ 2 END CAPS	OM	G	GP	N/A	-	X47	2" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
K100	2-0" ALUMINUM SHELF	NEW AGE/1267A	12" DEPTH, EQUIPMENT FOR HEIGHTS	OM	G	GP	N/A	-	X48	3" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
K101	6-0" PIZZA MAKE WALL SHELF	NEW AGE/1268A	12" DEPTH W/ VENDOR INSTALLED TICKET MINDER, MOUNTED 4'-10"	OM	G	GP	N/A	-	X49	4" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
K102	EMPLOYEE STOOLS	MODERN LEATHERETTE MDLP	3 EA LARGE MARKET LOCATION / 1 EA SMALL MARKET LOCATION	OM	G	GP	N/A	-	X50	5" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X51	6" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X52	7" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X53	8" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X54	9" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X55	10" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X56	11" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X57	12" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X58	13" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X59	14" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X60	15" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X61	16" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X62	17" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X63	18" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X64	19" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X65	20" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X66	21" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X67	22" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X68	23" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X69	24" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X70	25" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X71	26" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X72	27" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X73	28" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X74	29" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X75	30" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X76	31" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X77	32" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X78	33" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X79	34" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X80	35" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X81	36" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOCATIONS	OM	G	GP	N/A	-		
									X82	37" COAT RACK	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.0 FOR LOC							

PLOT VIEW PLOT / PLOT SCALE: 1/8"=1'-0"

M1780

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	COLOR
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	GREEN



ROOFTOP UNIT SCHEDULE																						
MARK	MFC'R	MODEL	SUPPLY CFM	SUPPLY FAN H.P.	EXT S.P.	O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL						E.E.R.	OPER. WEIGHT LBS	ZONE SERVED	REMARKS		
							COOLING TOTAL	COOLING SENSIBLE	HEATING INPUT	HEATING OUTPUT	COMP NO.	COMP RLA EA.	FAN NO.	FAN FLA EA.	VOLT	Ø					MCA	FUSE SIZE
RTU 1	CARRIER	48TJ006	2000	1.5	0.8"	500								208	3	27.6	40		550	DINING AREA	EXISTING SEE NOTES #5,6	
RTU 2	CARRIER	48TJ007	2400	3.0	0.8"	600								208	3	29.5	40		700	DINING AREA	EXISTING SEE NOTES #5,6	
RTU 3	CARRIER	48TJ007	2400	3.0	0.8"	600								208	3	29.5	40		700	DINING AREA	EXISTING SEE NOTES #5,6	
RTU 4	CARRIER	48TJ008	3000	3.0	0.8"	600								208	3	36.8	45		1000	DINING AREA	EXISTING SEE NOTES #5,6	
RTU 5	CARRIER	48TJ008	3000	3.0	0.8"	600								208	3	36.8	45		1000	DINING AREA	EXISTING SEE NOTES #5,6	
RTU 6	CARRIER	48HQ016	5000	3.7	0.8"	1250	182,000	117,000	250,000	205,000	3	16.7	4	1.5	208	3	88	100	11.5	2700	KITCHEN	SEE NOTES 1-4
NOTES:																						
1. UNITS SELECTED AT 80°F DB, 67°F WB, 100°F OUTDOOR AMBIENT.																						
2. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.																						
3. PROVIDE UNITS WITH FACTORY "HACR" FUSED DISCONNECT, 110V GFI/VP CONVENIENCE OUTLET, ECONOMIZER, ENTHALPY SENSOR, CARRIER # 33ZCT56SPT SLIDE BAR SENSOR, AND FACTORY ROOF CURB.																						
4. UNITS TO BE PROVIDED WITH FACTORY MOUNTED SMOKE DETECTORS FOR RETURN AND SUPPLY																						
5. ADJUST O/A CFM AS SCHEDULED.																						
6. PROVIDE RTU UNITS 1, 2, 3, 4, 5 WITH CARRIER MODEL #33CSP1N-01 THERMOSTAT WITH REMOTE SENSOR #ZONECCORRS01. INSTALL THERMOSTAT IN OFFICE. FLD. VER EXT'G SENSORS & THERMOSTATS																						

FAN SCHEDULE									
MARK	MFG'R	MODEL	CFM	EXT. S.P.	TYPE	SERVING	ELECTRICAL		
							H.P.	VOLT	#
EF-1	CAPTIVEAIRE	DU85HFA	1100	0.50"	CENT	PIZZA HOOD	1	120	1
EF-2	CAPTIVEAIRE	DU30HFA	350	0.75"	CENT	DISHWASH MACHINE	1/4	120	1
EF-3	DAYTON	7A593	900	0.75"	CENT	TOILETS	1/4	120	1
EF-4	MARS	42CH	2550	0.10"	CENT	SERVICE DOOR	1/2	120	1
NOTES: 1 EF-1 IS TO BE ELECTRICALLY INTERLOCKED WITH RTU-6 REFER TO ELECTRICAL DRAWINGS									

AIR DISTRIBUTION									
MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPTION
A	TITUS OR EQUAL	TDC-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	12"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
B	TITUS OR EQUAL	TDC-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
C	TITUS OR EQUAL	TMS-AA	SEE PLANS	800 MAX.	30 MAX.	24x24	15"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
D	TITUS OR EQUAL	TMS-AA	SEE PLANS	750 MAX.	30 MAX.	24x24	14"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
E	TITUS OR EQUAL	TMS-AA	SEE PLANS	750 MAX.	30 MAX.	24x24	12"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
F	TITUS OR EQUAL	TMS-AA	SEE PLANS	700 MAX.	30 MAX.	24x24	10"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
G	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
H	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY-IN	4-WAY FIXED LOUVER CLG. DIFFUSER
J	TITUS OR EQUAL	50FF	SEE PLANS	500 MAX.	30 MAX.	(2) 48x24	(2) 46x22	LAY-IN	EGGCRATE RETURN GRILLE
K	TITUS OR EQUAL	50FF	SEE PLANS	500 MAX.	30 MAX.	24x12	22x10	LAY-IN	EGGCRATE RETURN GRILLE
L	TITUS OR EQUAL	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	12x8	LAY-IN	EGGCRATE EXHAUST GRILLE
M	TITUS OR EQUAL	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY-IN	EGGCRATE RETURN GRILLE
N	TITUS OR EQUAL	8SS	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY-IN	PERFORATED RETURN GRILLE
O	TITUS OR EQUAL	272FS	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SURFACE	SIDEWALL SUPPLY GRILLE
P	TITUS OR EQUAL	50F	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SURFACE	SIDEWALL RETURN GRILLE
NOTES: 1. PROVIDE WITH OFF-WHITE FINISH. 2. PROVIDE WITH AG-75 DAMPER 3. PROVIDE WITH AG-35-AA DAMPER. 4. PROVIDE WITH AG-15-SS DAMPER.									

ROOFTOP UNIT LABELING									
ALL ROOFTOP UNITS ARE TO BE LABELED WITH ENGRAVED LAMINATED NAMEPLATES, SCREWED TO THE EXTERIOR OF THE UNITS SHOWING THE FOLLOWING INFORMATION .									
1.	UNIT NUMBER								
2.	MODEL NUMBER								
3.	SERIAL NUMBER								
4.	GAS OR ELECTRIC HEAT								
5.	TONNAGE								
6.	VOLTAGE								

AIR BALANCE SCHEDULE						
ZONE KITCHEN, RTU-6						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 6	5000	3750	1250	----	+1250	
EF 1	----	----	----	1100	-1100	
EF 2	----	----	----	350	-350	
EF 3	----	----	----	900	-900	
SUBTOTAL	5000	3750	1250	2350	-1100	
ZONE DINING, RTU-1						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 1	2000	1500	500	----	+500	
ZONE DINING, RTU-2						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 2	2400	1800	600	----	+600	
ZONE DINING, RTU-3						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 3	2400	1800	600	----	+600	
ZONE DINING, RTU-4						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 4	3000	2400	600	----	+600	
ZONE DINING, RTU-5						
MARK	SUPPLY AIR-CFM	RETURN AIR-CFM	OUTSIDE AIR-CFM	EXHAUST AIR-CFM	PRESSURE	
RTU 5	3000	2400	600	----	+600	
BUILDING TOTAL	17800	13650	4150	2350	+1800	
NOTES:						
1. A COMPLETE TEST AND AIR BALANCE SHALL BE PERFORMED ON ALL AIR DISTRIBUTION EQUIPMENT. THE TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT, FULLY CERTIFIED TAB AGENCY THAT SPECIALIZES IN THE TESTING AND BALANCING OF AIR AND HYDRONIC SYSTEMS. THE TAB AGENCY SHALL SUBMIT TO THE OWNER (6) COPIES OF A WRITTEN REPORT WITHIN 30 DAYS AFTER THE INSPECTION IS COMPLETE. LIST ALL COMPLAINTS AND MALFUNCTIONS ENCOUNTERED AND INDICATE STEPS TAKEN OR NEEDED TO BE TAKEN TO CORRECT SEE A8.0 FOR APPROVED VENDER						

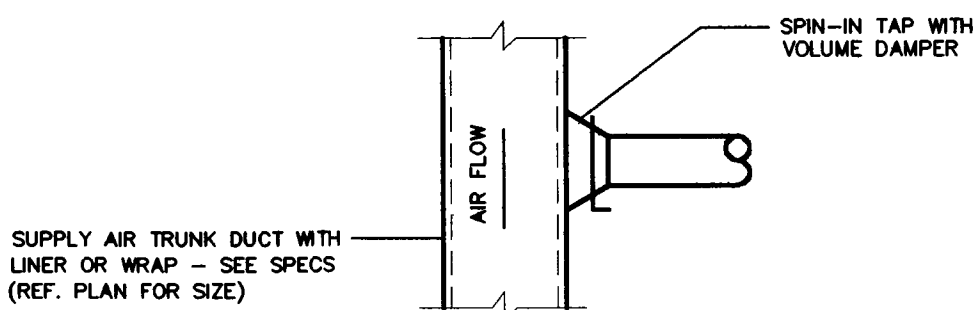
OUTSIDE AIR REQUIRED				
ROOM USE	SQ. FT.	No. PEOPLE	CFM/PERSON	CFM REQ'D
KITCHEN	1220	10	15	150
DINING	2860	327	20	4000
TOTAL				4150

OUTSIDE AIR PROVIDED			
UNIT No.	SUPPLY AIR	RETURN AIR	OUTSIDE AIR
RTU-1	2000	1500	500
RTU-2	2400	1800	600
RTU-3	2400	1800	600
RTU-4	3000	2400	600
RTU-5	3000	2400	600
RTU-6	5000	3750	1250
TOTAL			4150

ALL CALCULATIONS ARE BASED ON DATA PROVIDED IN THE 2000 INTERNATIONAL PLUMBING AND MECHANICAL CODE.

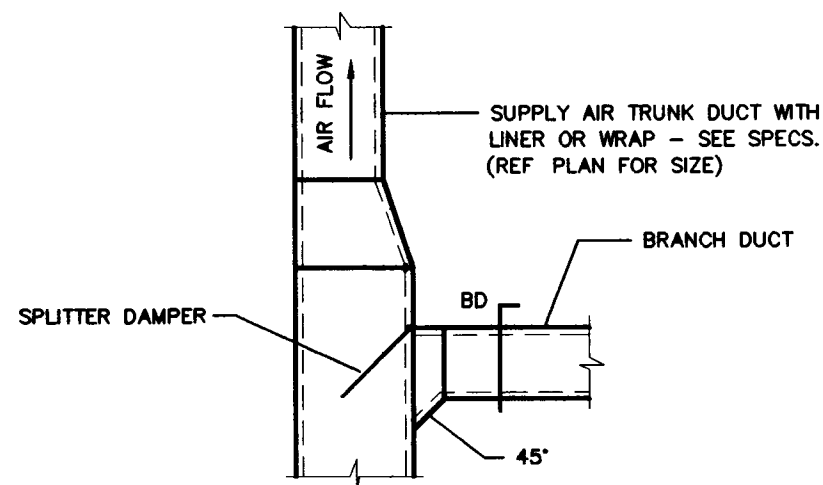
01 OUTSIDE AIR CALCULATIONS

Scale: NO SCALE



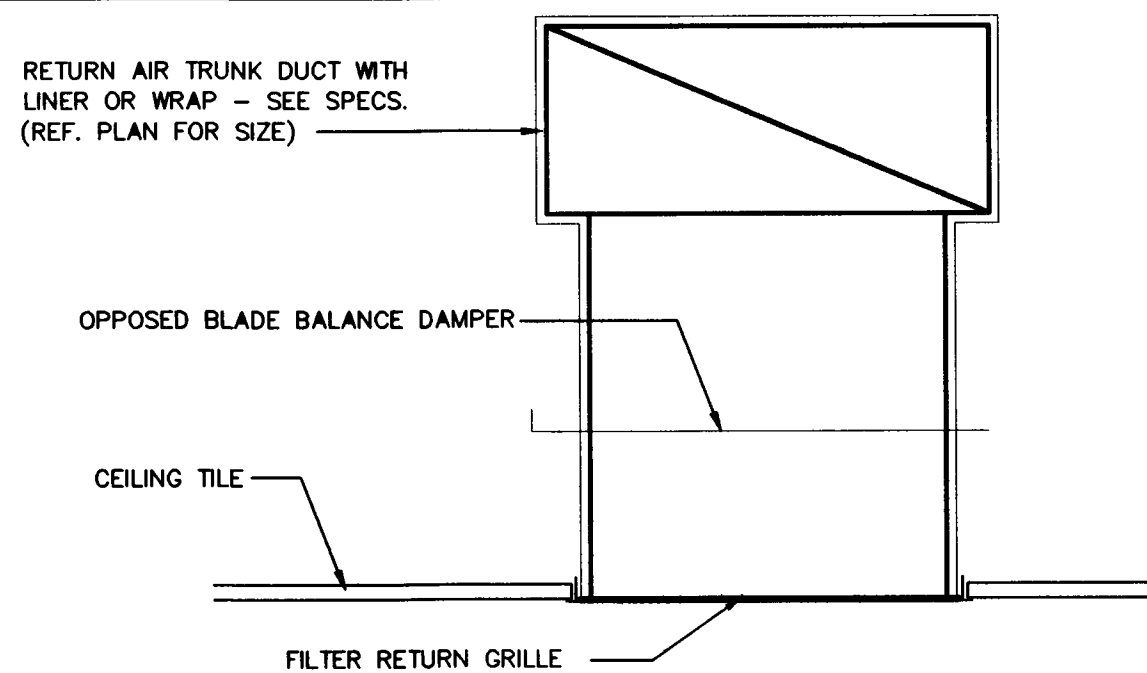
02 SPIN-IN TAP DETAIL

Scale: NO SCALE



04 TYP. BRANCH DUCT TAP

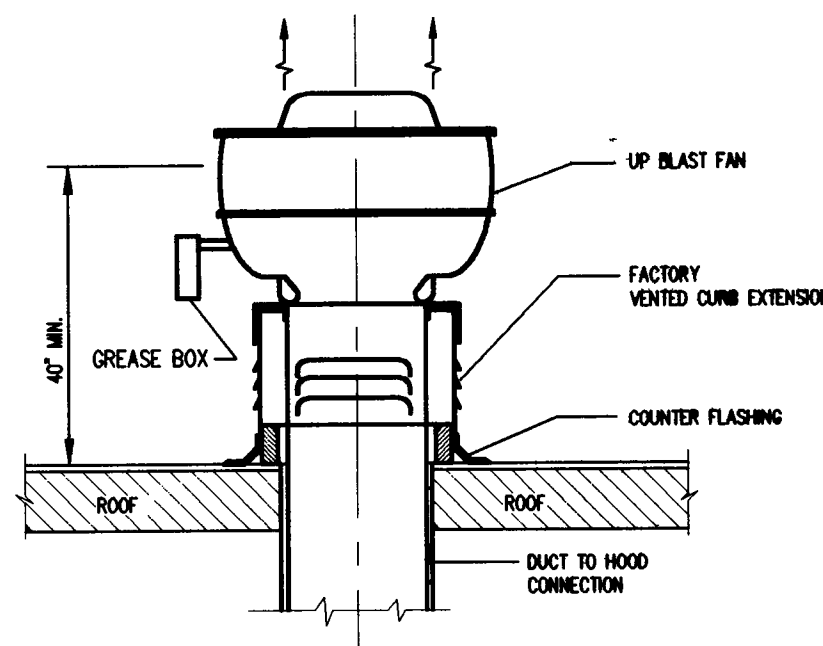
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06 TYP RETURN AIR CONNECTION

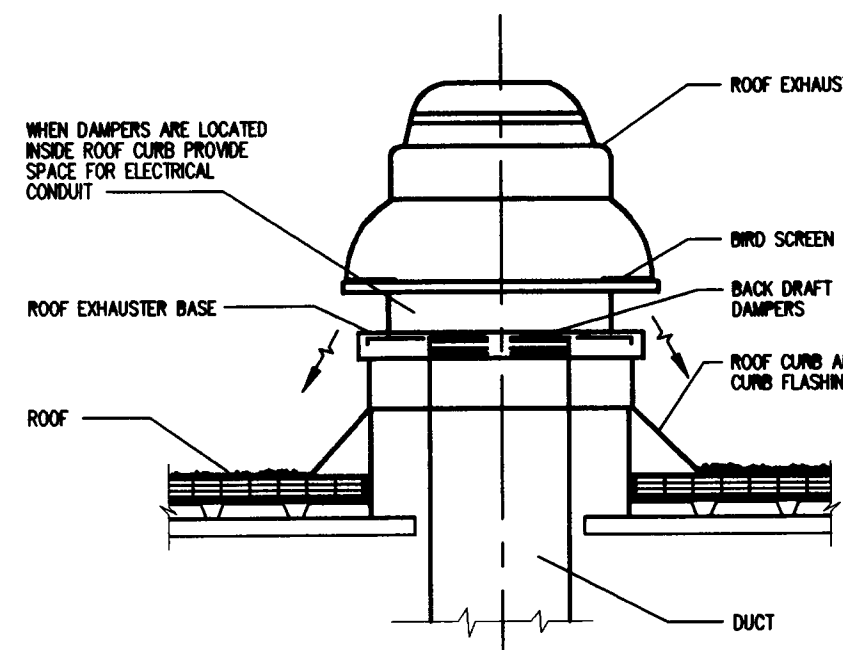
Scale: NO SCALE

MECHANICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW	24"x12" TYPE "L" GRILLES	(2) 24"x12" TYPE "L" GRILLES W/1/2" DIA. FLEX DUCT FOR AIR TRANSFER
⊖	THERMOSTAT	⊖	CEILING SUPPLY DIFFUSER 5 WAY THROW
⊖	GATE VALVE	⊖	CEILING SUPPLY DIFFUSER 5 WAY THROW
⊖	CHECK VALVE	⊖	RETURN AIR GRILLE
⊖	STRAINER	⊖	DIFFUSER SHOWN WITH FLEXIBLE DUCT CONNECTION AND VOLUME DAMPER
⊖	UNION	⊖	RECTANGULAR ELBOW WITH TURNING VANES
⊖	PRESSURE GAUGE	⊖	DUCT SIZE TRANSITION
⊖	THERMOMETER	⊖	WALL MOUNTED SUPPLY AIR REGISTER
E.A	EXHAUST AIR	⊖	ROOF-TOP COOLING SYSTEM CONDENSERS AND ROOF-TOP HVAC UNIT SCHEMATIC REPRESENTATION ONLY. REFER TO MANUFACTURER'S INFORMATION FOR SIZE, SHAPE, DIMENSION, ETC.
F.D	FIRE DAMPER W/ FUSIBLE LINK	⊖	ROOF-TOP COOLING SYSTEM CONDENSERS AND ROOF-TOP HVAC UNIT SCHEMATIC REPRESENTATION ONLY. REFER TO MANUFACTURER'S INFORMATION FOR SIZE, SHAPE, DIMENSION, ETC.
H.O.A	HAND - OFF - AUTOMATIC	⊖	CONDENSATE DRAIN (PITCHED)
N.C	NORMALLY CLOSED	⊖	BACKDRAFT DAMPER
N.O	NORMALLY OPEN	⊖	POINT OF CONNECTION
M.A	MIXED AIR	⊖	SUPPLY AIR DEVICE
O.A	OUTSIDE AIR	⊖	ROUND FLEXIBLE DUCT CONNECTION
REL. A	RELIEF AIR	⊖	NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
R.A	RETURN AIR	⊖	
⊖	DUCT MOUNTED SMOKE DETECTOR		
⊖	MANUAL BALANCING DAMPER		
⊖	MOTORIZED DAMPER		
⊖	CEILING RETURN AIR DEVICE		
⊖	SUPPLY DUCT RISER		



03 UP-BLAST EXH FAN DETAIL

Scale: NO SCALE



05 ROOF MTD EXH FAN DETAIL

Scale: NO SCALE

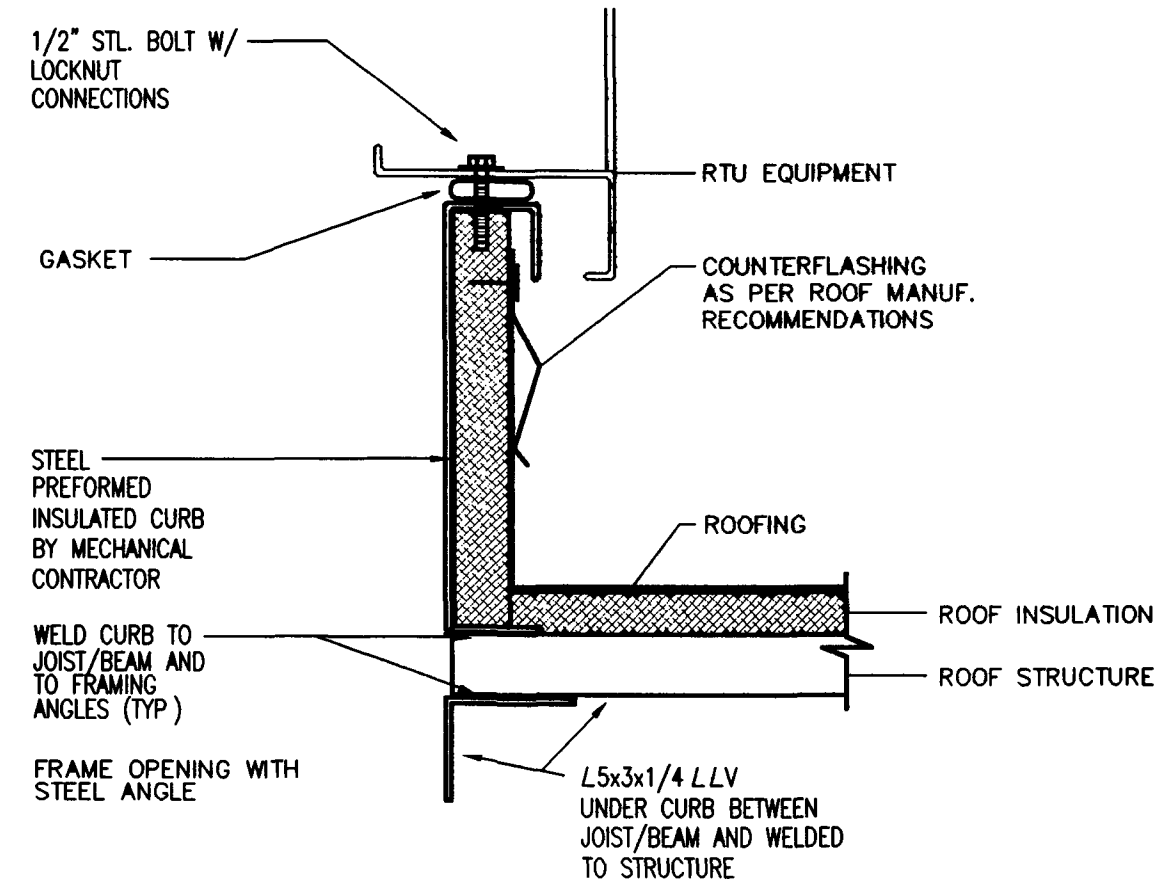


ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 78040

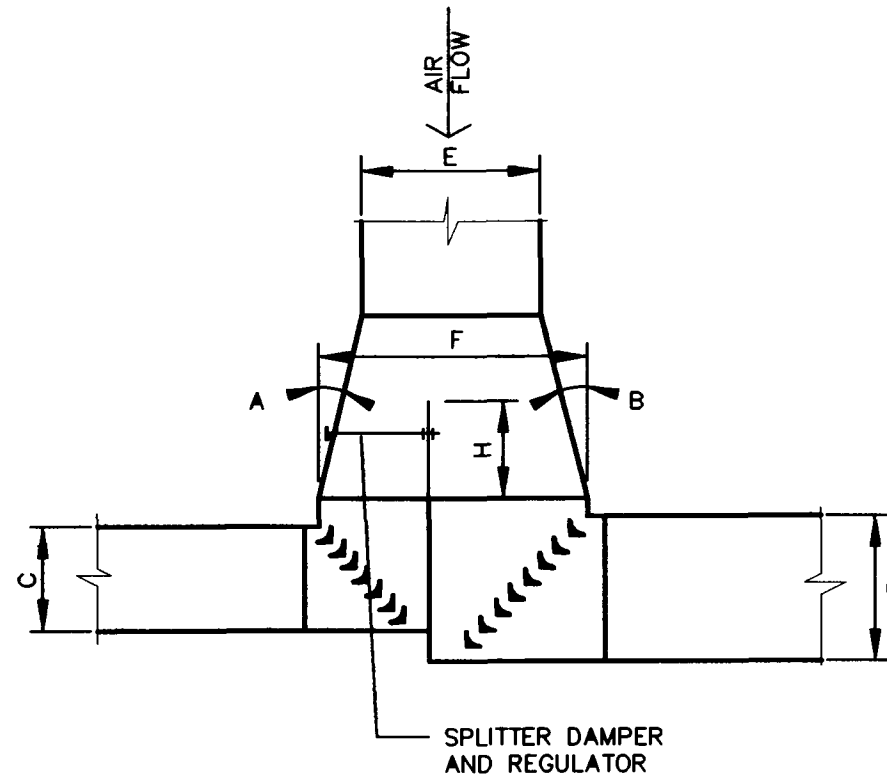
PERMIT SET
780
OCALA, FL
CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
MECHANICAL SCHEDULES AND DETAILS

Project Number
SB-780

Sheet Number
M1.2
of 5

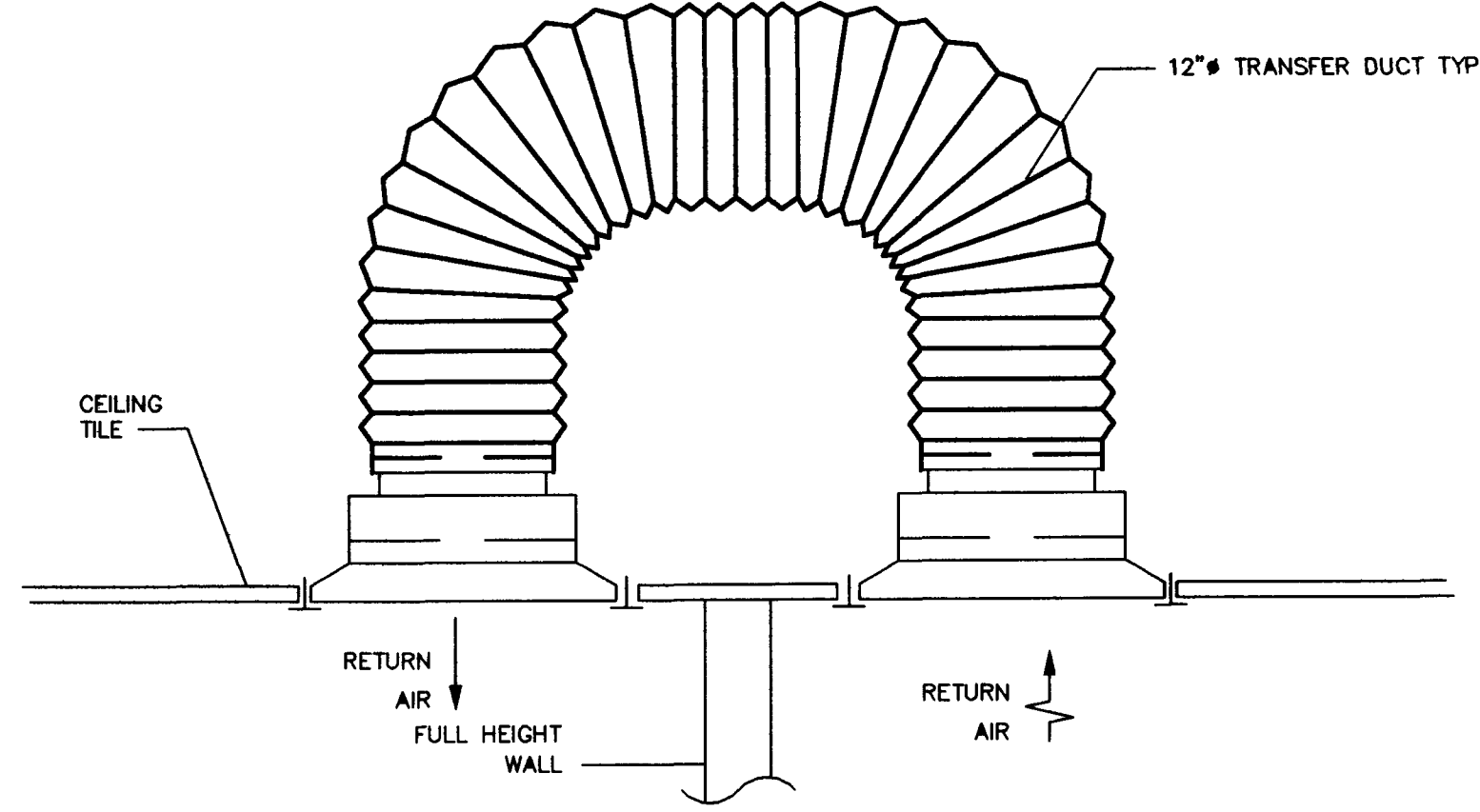


01 RTU CURB DETAIL
Scale: NO SCALE

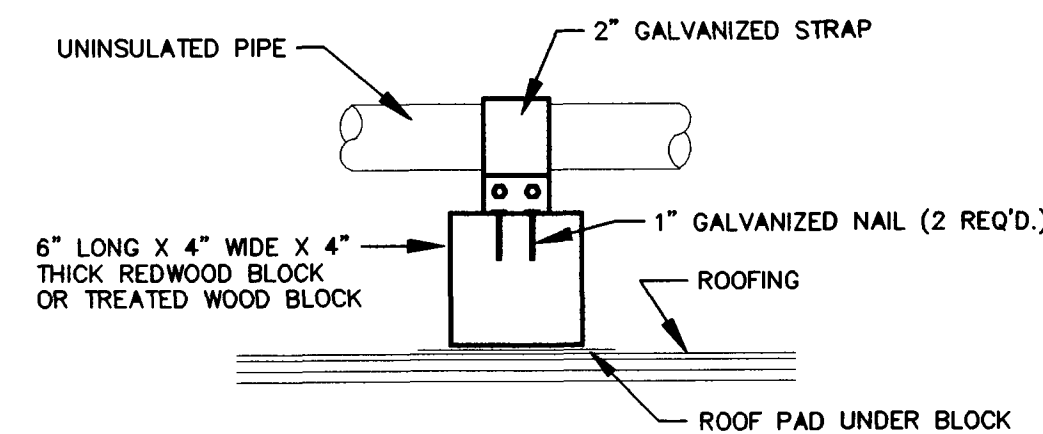


- DIMENSIONAL RELATIONSHIP**
1. ANGLES A & B EACH TO BE 20 DEGREES OR LESS
 2. SEE FLOOR PLANS FOR VALUES FOR C, D & E
 3. $F = C + D$
 4. $H = 1.5 \times C$
 5. HEIGHT OF FITTING EQUAL TO THAT OF HIGHEST OF THE THREE DUCTS
 6. CHANGE IN HEIGHTS OF DOWNSTREAM DUCTS TO OCCUR AFTER THE TURN

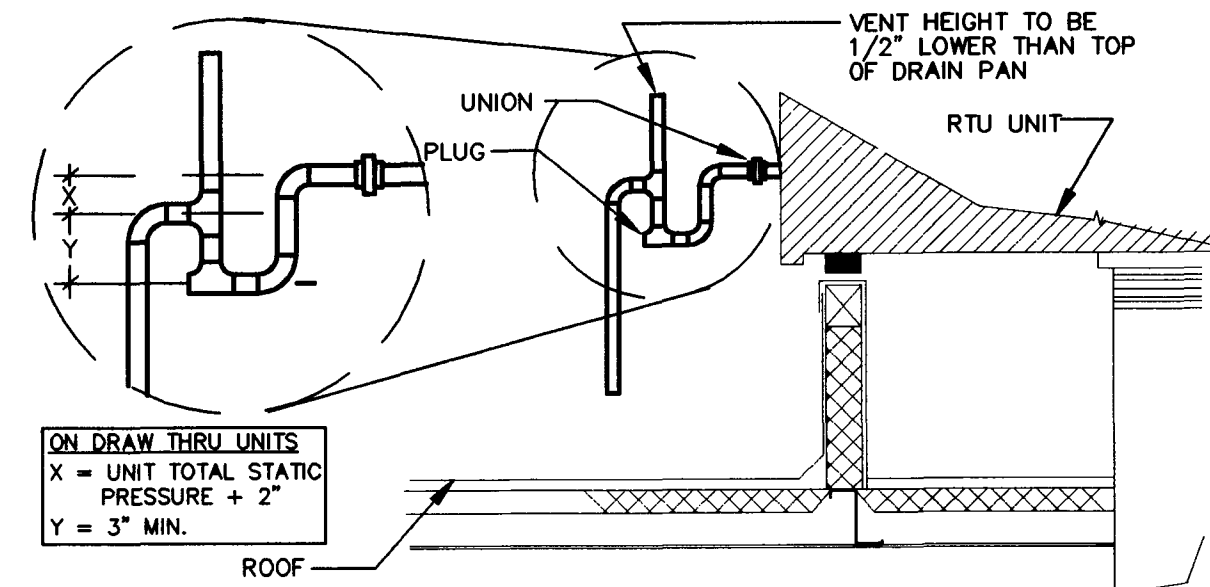
02 SPLITTER TEE DETAIL
Scale: NO SCALE (NOT USED)



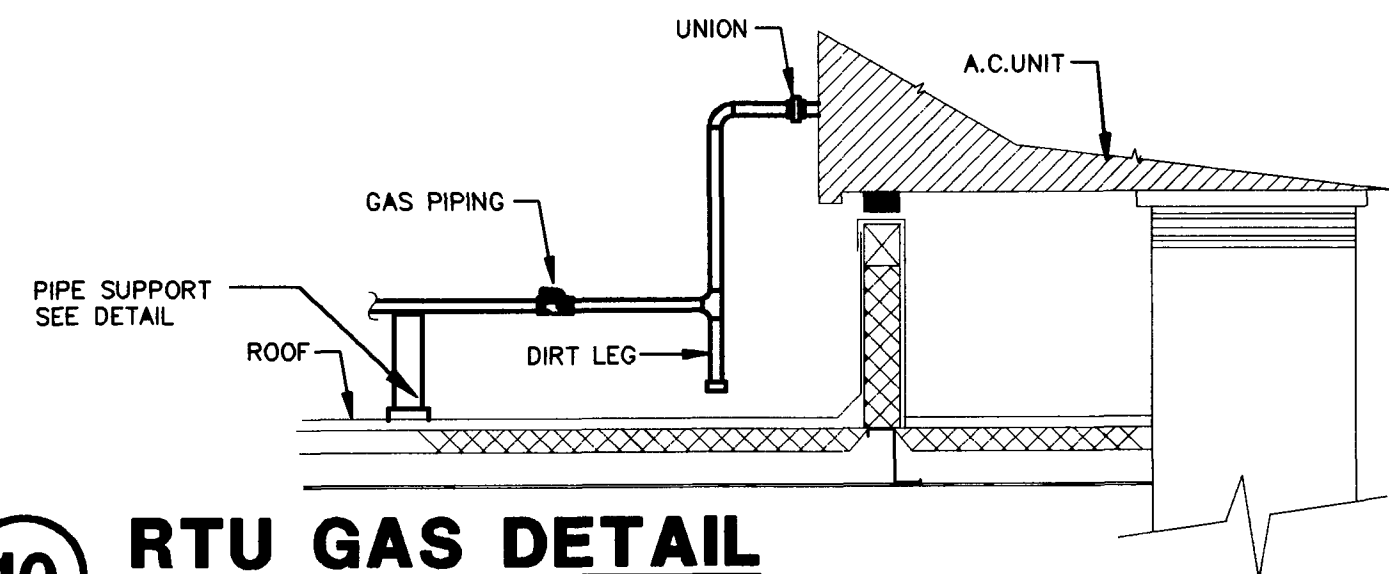
03 TRANSFER DUCT DETAIL
Scale: NO SCALE (NOT USED)



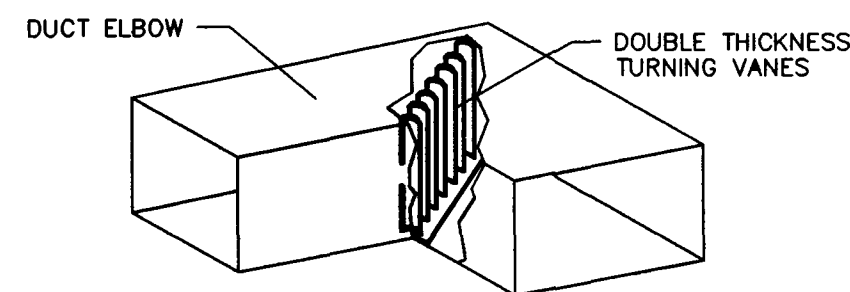
08 PIPE SUPPORT DETAIL
SCALE: NONE



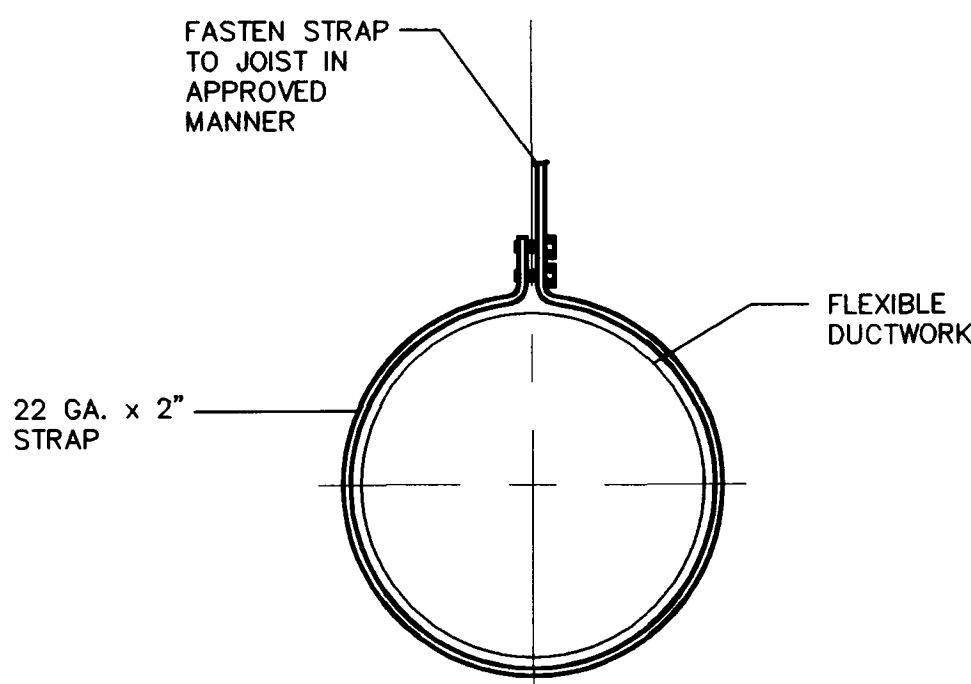
09 CONDENSATE DTL.
SCALE: NONE



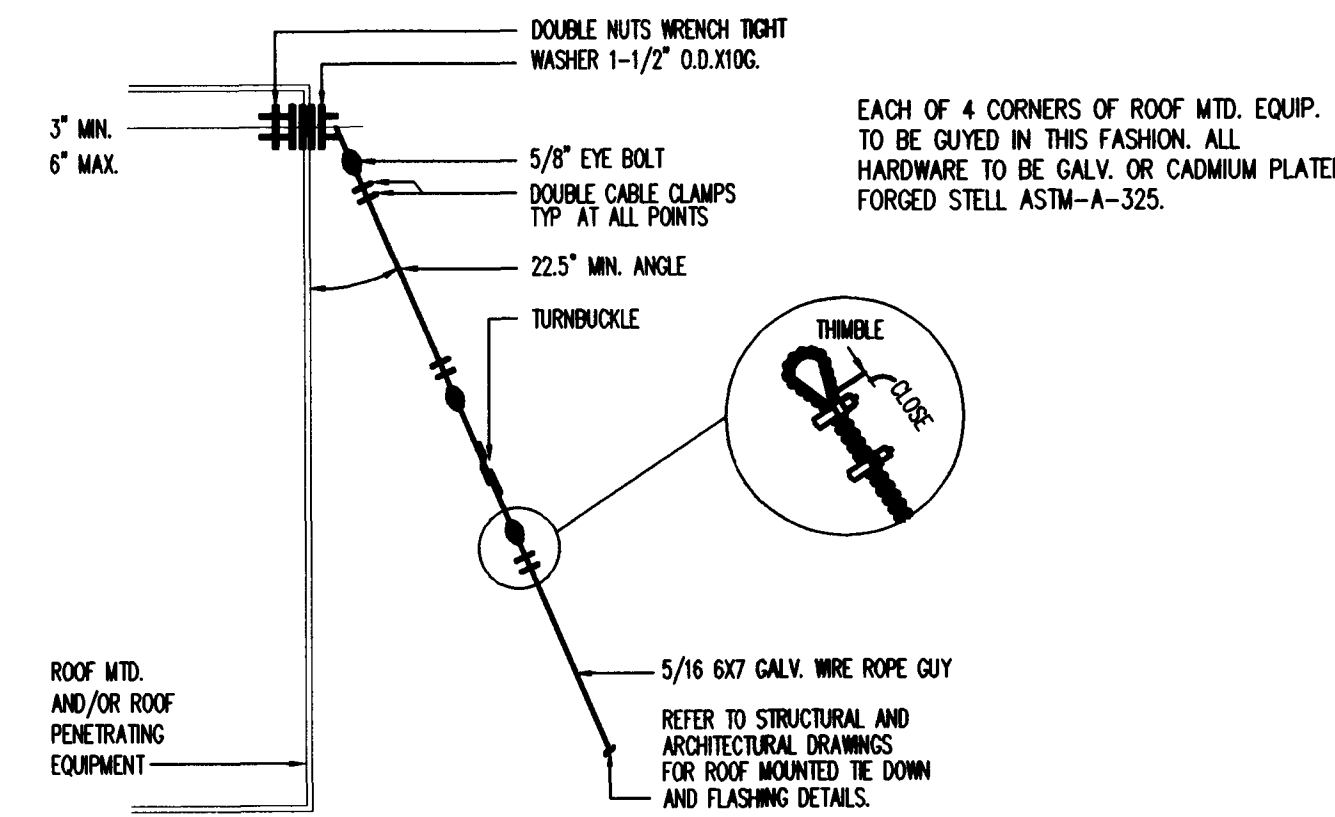
10 RTU GAS DETAIL
SCALE: NONE



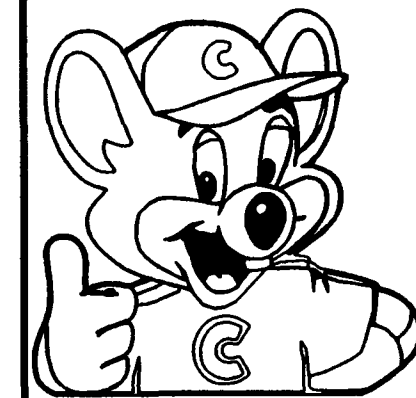
06 MITERED ELBOW DETAIL
Scale: NO SCALE



07 FLEX DUCT SUPPORT DETAIL
Scale: NO SCALE

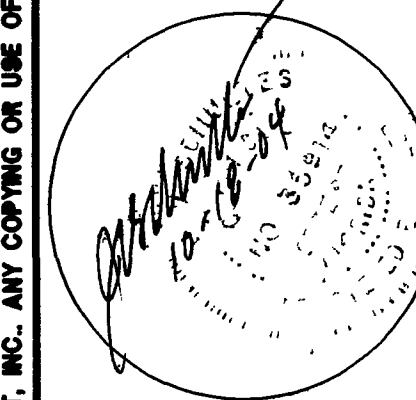


11 HURRICANE TIE DOWN DETAIL
Scale: NO SCALE



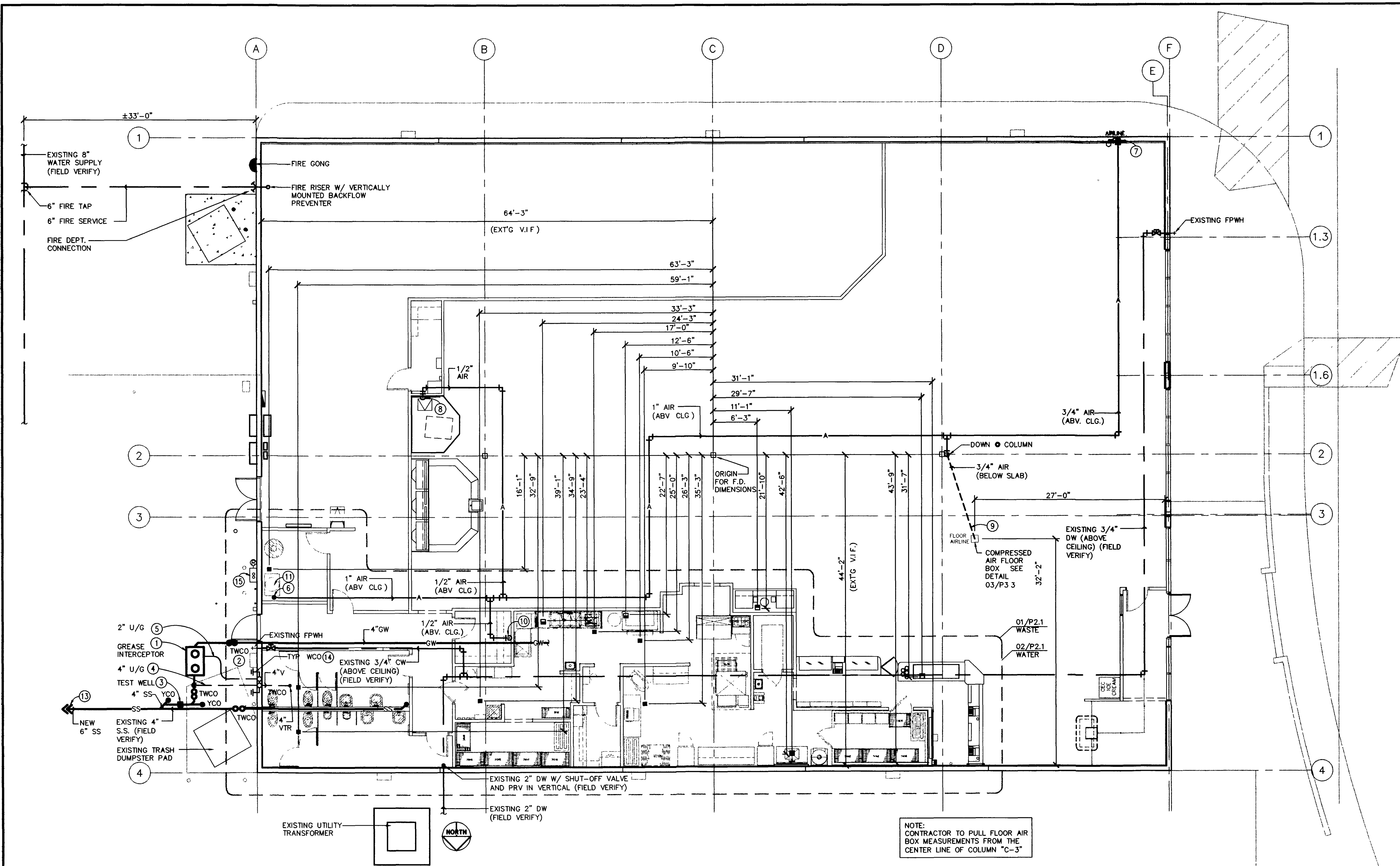
ARCHITECTURE - PLANNING - DESIGN
C.T. CHIANG, A.I.A.
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PERMIT SET
780
OCALA, FL
CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
MECHANICAL DETAILS



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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75
76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
91 92 93 94 95 96 97 98 99 100
PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"



01 PLUMBING FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTES BY SYMBOL

- 500 GALLON GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
- TWO-WAY CLEANOUT, SEE DETAIL 04/P3.3.
- TEST WELL, SAMPLE PORT, SEE DETAIL 07/P3.3.
- 4" LOCAL VENT FROM GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
- 2" RELIEF VENT FROM GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
- 1" COPPER AIR LINE DOWN TO AIR COMPRESSOR/AIR DRYER, SEE DETAIL 09/P3.3.
- 3/4" COPPER AIR LINE DOWN TO GAMES TO TERMINATE W/ 1/2" THREADED BALL VALVE LOCATED AT 12" A.F.F., SEE DETAIL 08/P3.3.
- 1/2" COPPER AIR LINE TO 1/2" BALL VALVE, TO BE INSTALLED 12" A.F.F. AND 1'-8" OUT FROM BACK WALL. SEE DETAIL 08/P3.3.
- 3/4" COPPER PIPING TO "CRYLON" 12" X 12" FLOOR BOX. INSTALL BELOW FOUNDATION AND TERMINATE W/ 1/2" BALL VALVE. REFER DETAIL 03/P3.3.
- 1/2" COPPER AIR LINE TO 1/2" THREAD ADAPTER WITH BALL VALVE. INSTALL 50" A.F.F.
- AIR COMPRESSOR WITH DRYER ABOVE, SEE DETAIL 09/P3.3.
- 2" DOMESTIC WATER SERVICE TO BUILDING. COORDINATE CONNECTION POINT WITH CIVIL SITE UTILITY PLAN.
- SANITARY AND GREASE WASTE CONNECTION POINTS. COORDINATE CONNECTION WITH CIVIL SITE UTILITY PLAN. (FIELD VERIFY 8" PVC SANITARY SEWER SERVICE LINE.)
- 4" LOCAL VENT AND 2" RELIEF VENT FROM GREASE INTERCEPTOR. TURN UP IN EXTERIOR WALL. INSTALL EXTERIOR WALL CLEAN OUTS AT 36" A.F.F. CONNECT VENT TOGETHER AT 42" A.F.F., EXTEND 4" VENT UP THRU ROOF. SEE ROOF PLAN SHEET MEP 1.1.
- GAS METER, SEE ROOF PLAN SHEET MEP 1.1 FOR METER AND GAS DEMAND INFORMATION.

UTILITY CONTACTS

CHUCK E CHEESE'S TO COORDINATE PAYMENT OF ALL IMPACT AND CONNECTION FEES. GENERAL CONTRACTOR AND PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING PAYMENT OF PERMIT FEES. G.C. AND P.C. SHALL VERIFY ALL REQUIREMENTS AND POINT OF CONNECTION. G.C. AND P.C. SHALL MAKE ARRANGEMENTS FOR SERVICE ON THIS PROJECT AND COORDINATE PAYMENT. G.C. & P.C. SHALL PROVIDE ALL APPURTENANCES AS REQUIRED BY UTILITY COMPANIES FOR PROVIDING SERVICES TO THIS PROJECT. G.C. AND P.C. SHALL CONTACT THE UTILITIES AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF SERVICES WITH THE UTILITIES.

LANDLORD'S COORDINATOR: CONTACT: TOM VETTER PHONE: 912-355-1311	OCALA WATER & SEWER: CONTACT: HENRY HICKS PHONE: 352-351-6670
CITY OF OCALA BUILDING: CONTACT: DAVID BRANNUM PHONE: 352-629-8421	TECO / PEOPLE'S GAS: CONTACT: PHONE: 877-832-6747, EXT. 4
DIV. OF HOTEL & RESTAURANTS HEALTH: CONTACT: KEN HENSILL PHONE: 850-487-1395	GREASE TRAP: CONTACT: BILL CREGOR PHONE: 352-401-6925
OCALA ELECTRIC: CONTACT: CHRIS LA PEARL PHONE: 352-351-6620	FIRE MARSHAL: CONTACT: BARRY BRITTON PHONE: 352-629-8386

NOTE:
1 CONTACT GAS COMPANY AT START OF CONSTRUCTION FOR METER SET AND SERVICE COORDINATION

UTILITY NOTES

A. COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY COMPANIES AND INCLUDE ALL WORK REQUIRED IN BID.
B. UTILITIES INFORMATION ARE APPROXIMATELY SHOWN, CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND SITE CONDITIONS PRIOR TO BID/CONSTRUCTION.
C. PLUMBING CONTRACTOR SHALL PAY FOR ALL EXPENSES TO RELOCATE/REMOVE EXISTING UTILITIES BUT ARE NOT LIMITED TO WATER, SEWER, GAS, ETC. PER UTILITY COMPANIES SPECS. AND REQUIREMENTS.
D. GENERAL CONTRACTORS SHALL NOTE THAT ALL WORK TO BE DONE SUCH AS EXCAVATIONS, TRENCHES, CAISSONS, WALLS, ETC. AS INDICATED ON DRAWINGS IS SHOWN WITHOUT KNOWLEDGE OF UNDERGROUND UTILITIES ON THIS PARTICULAR SITE. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR DETERMINING THEIR LOCATION, SIZE, DEPTH OR HAZARD.
E. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES FOR LINE LOCATIONS 72 HOURS PRIOR TO EXCAVATION

GREASE INTERCEPTOR SIZING

INTERCEPTOR SIZING SUMMARY	
Seating Capacity:	200
Meals Per Peak Hour:	100
Waste Flow Rate (gal):	2
Retention Time (hr):	1.5
Storage Factor:	1.5
Interceptor Minimum Capacity:	450 Gallons
Design Interceptor Capacity:	500 Gallons

FIRE PROTECTION NOTES:

A) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AUTOMATIC SPRINKLER SYSTEM FOR THE ENTIRE BUILDING.
B) SPRINKLER HEAD LAYOUT SHALL BE BASED ON NFPA 13 AND STATE AND LOCAL CODES AND LANDLORD'S REQUIREMENTS. SPRINKLER SYSTEM SHALL CONFORM TO STATE BOARD OF INSURANCE, NFPA 13, LOCAL AND OWNER'S INSURANCE COMPANY REQUIREMENTS. CONTRACTOR SHALL CONTACT OWNER'S INSURANCE COMPANY TO CONFIRM ALL OF THEIR REQUIREMENTS, PRIOR TO SUBMITTING THEIR BID.
C) ZONE ALARMS ARE REQUIRED FOR SMOKE DETECTORS IN RTU RETURN DUCTS.
D) LOCATE ANNUNCIATOR NEAR EXTERIOR DOOR.

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EULESS, TX 76040

CHUCK E. CHEESE'S PIZZA.
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PLUMBING FLOOR PLAN

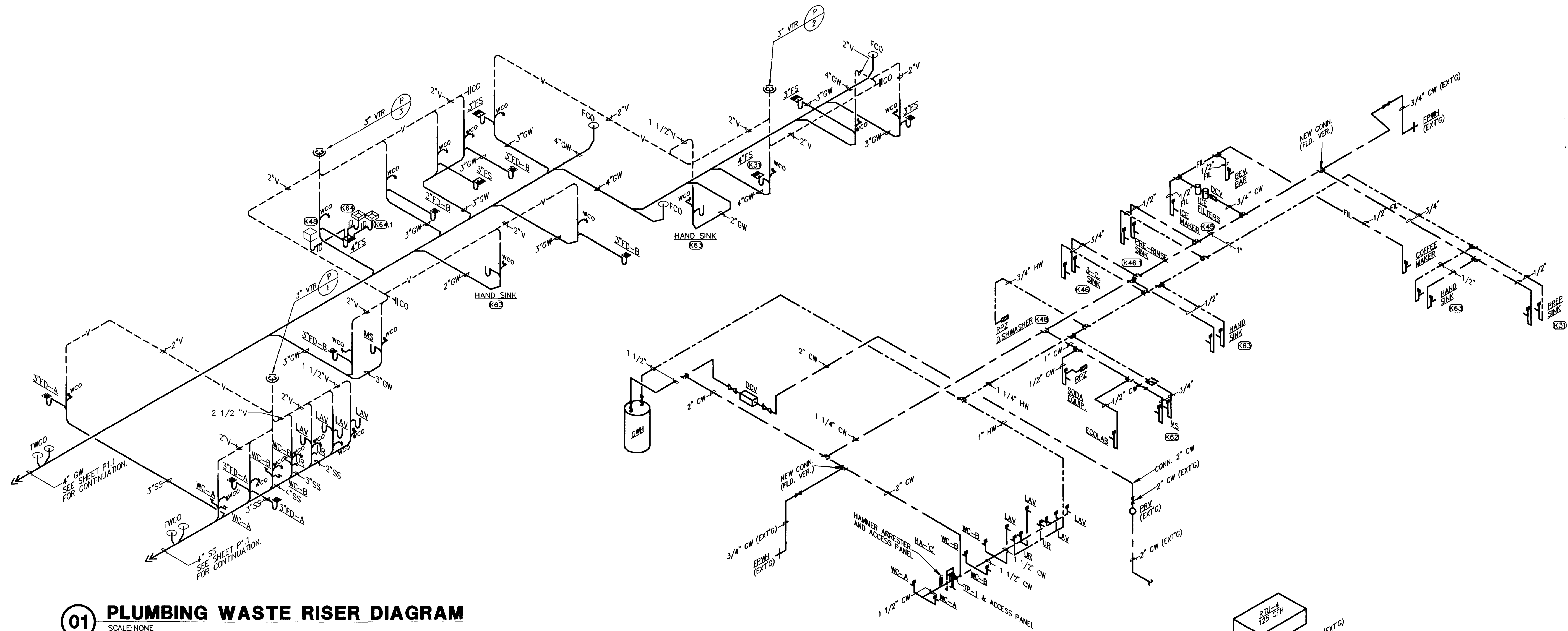
DATE
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Revisions

Project Number
SB-780

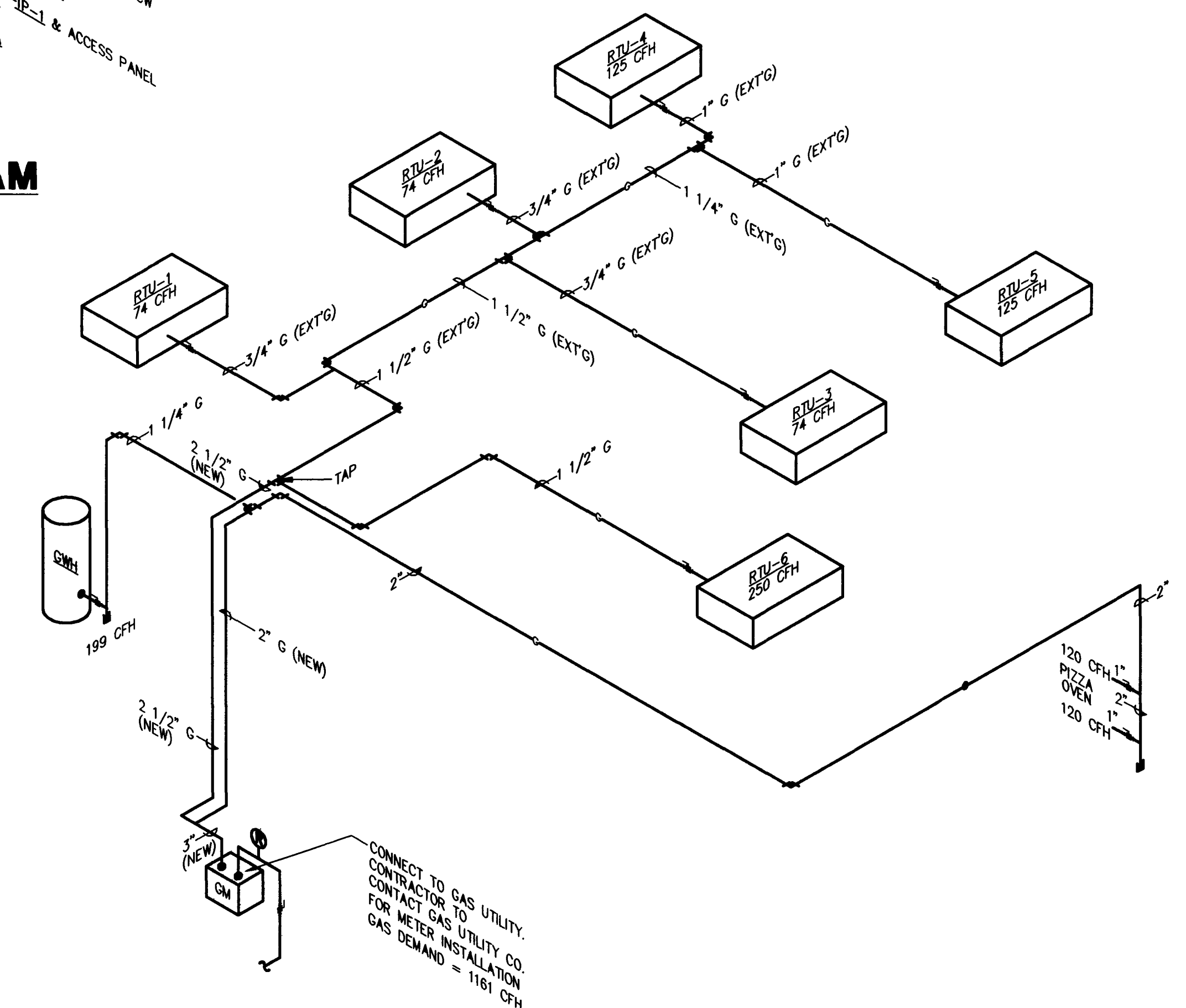
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of 6

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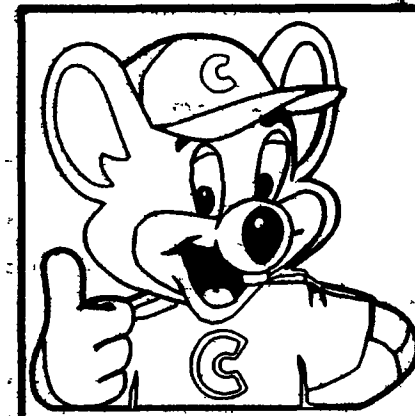


01 PLUMBING WASTE RISER DIAGRAM
SCALE: NONE

02 PLUMBING WATER RISER DIAGRAM
SCALE: NONE



03 PLUMBING GAS RISER DIAGRAM
SCALE: NONE



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4441 WEST AIRPORT FREEWAY
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PLUMBING RISER DIAGRAMS

Date
10/18/2004

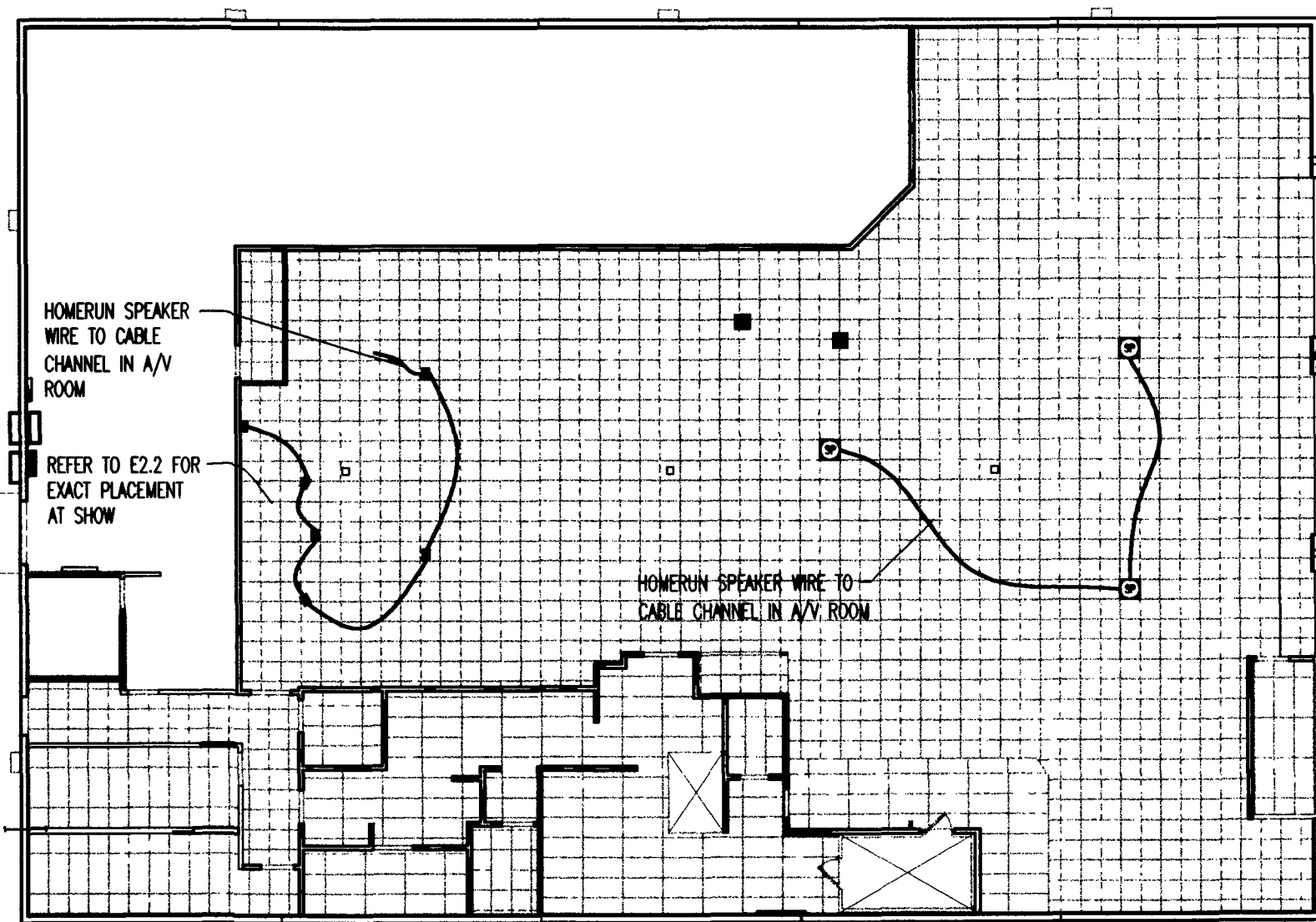
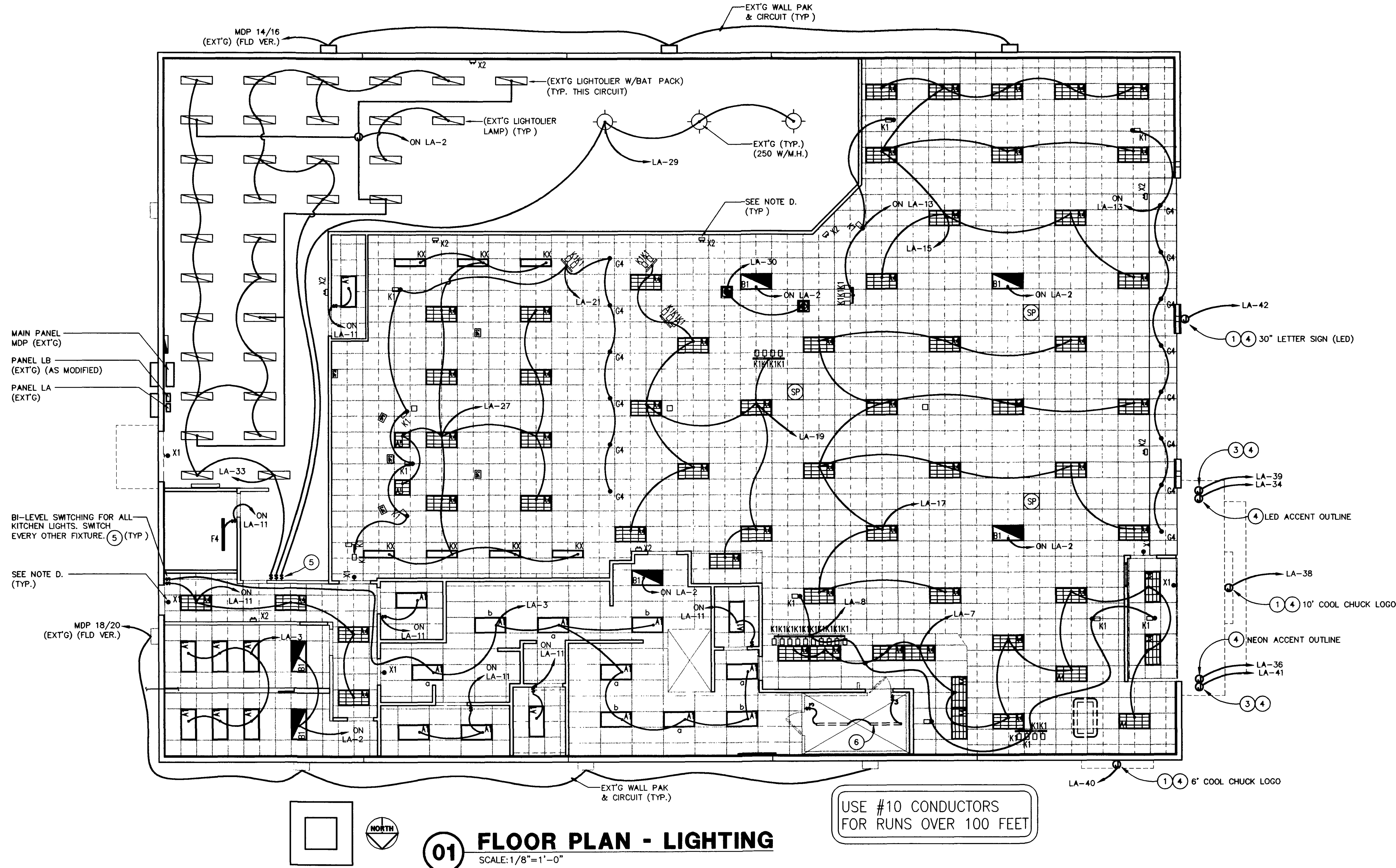
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of 6

ENCLOSURE PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"

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LIGHTING NOTES

- LIGHT FIXTURES ABOVE FOOD PREP, STORAGE, AND SALES AREAS SHALL BE SHIELDED OR HAVE SHATTERPROOF OR SHIELDED LAMPS.
- ALL 2x4 FLUORESCENT FIXTURES SHALL HAVE T-8 ENERGY SAVING LAMPS AND ELECTRONIC BALLAST.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
- ALL EXIT/EMERGENCY TYPE X1 AND X2 IN DINING AREA SHALL BE ON SEPARATE BRANCH CIRCUIT THAT ORIGINATES FROM SAME PANELBOARD AS THAT OF THE NORMAL LIGHTING CIRCUITS AND IS PROVIDED WITH A LOCK-ON FEATURE (LA-1).
- OUTLETS, SWITCHES AND COVER PLATES SHALL BE STAINLESS AT FOOD PREP, GRAY AT MARLITE (LEVITON 5362-SG/80703-GY) AND IVORY AT ALL OTHER AREAS. AT CEILING PAINT TO MATCH CEILING COLOR.
- PROVIDE POWER FOR PARKING LOT LIGHTS WITH MIN. #8 CONDUCTORS IN 3/4" CONDUITS THRU 12-POLE CONTACTOR TO CIRCUIT LA-26/28. REFER TO RISER DIAGRAM ON SHEET E3.1.

NOTES BY SYMBOL

- WP J-BOX IN WALL FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH SIGNAGE SUPPLIER. USE (2) #10 AWG, #10G, 3/4" C.
- MOUNT EMERGENCY LIGHT FIXTURES AS CLOSE TO CEILING AS ACCEPTED BY AUTHORITIES (TYPICAL).
- WP J-BOX INSIDE WALL WITH 5' WHIP TO OUTSIDE FOR CONNECTION TO AWNING LIGHTS. VERIFY EXACT LOCATION WITH SUPPLIER.
- CIRCUIT SHALL BE CONTROLLED THRU 12-POLE CONTACTOR (ASCO #917 SERIES) ACTIVATED BY PHOTOCELL MOUNTED ON ROOF (FACING NORTH) AND DEACTIVATED BY TIMECLOCK (7-DAY/24HOUR/SKIP-A-DAY FEATURES).
- OUTLETS, SWITCHES, AND PLATES SHALL BE:
A) STAINLESS AT FRP.
B) GREY AT MARLITE. SAFETY RECEPTACLES, LEVITON 5262-SGG RECEPTACLES, 80703 EG PLATE.
C) IVORY AT ALL OTHER AREAS.
D) CEILING OUTLETS SHALL BE PAINTED TO MATCH CEILING COLOR.
- INSTALL FIXTURES AND SWITCH (PROVIDED BY OTHERS) IN WALK-IN BOX. THIS CONTRACTOR SHALL FURNISH AND INSTALL LAMPS AS REQUIRED.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG No.	BALLAST TYPE	FIXTURE No. OF WATTAGE LAMPS	LAMP TYPE	REMARKS
A1	2x4 STATIC LENSED TROFFER	COLUMBIA JT824-332G-FSA12-3EB8-120	ELECTRONIC (1)	94 3	SYLVANIA F032/741 T8	
A4	SAME AS TYPE A1 EXCEPT WITH 3/4x3/4x1/2 SILVER STYRENE	COLUMBIA JT824-332G-FSPC4-3EB8-120	ELECTRONIC (1)	94 3	SYLVANIA F032/741 T8	
Ax	2 X 2 STATIC LENSED TRUFFER	COLUMBIA JT822-232UG-FSA12-120	ELECTRONIC (1)	58 1	SYLVANIA U-18-32W	
B1	SAME AS TYPE A1 EXCEPT WITH EMERGENCY BATTERY PACK	JT824-332G-FSA12-3EB8-120-EL	ELECTRONIC (1)	94 3	SYLVANIA F032/741 T8	
B4	SAME AS TYPE A4 EXCEPT WITH EMERGENCY BATTERY PACK	JT824-332G-FSPC4-3EB8-120-EL	ELECTRONIC (1)	94 3	SYLVANIA F032/741 T8	
C1	SCORCE UP/DOWN SQUARE BRONZE FIXTURE	1955E-2x32DTA-APAR380-AB-LMP	ELECTRONIC (1)	68 2	4-PIN TRIPLE-TUBE INCLUDED	LISTED FOR WET LOCATION
C2	OUTDOOR GOOSE NECK WITH ANGLED SIGN	SPECTRUM LIGHTING AS1214CF/PA26 ARM	ELECTRONIC (1)	34 1	SYLVANIA 32W CFL	LISTED FOR WET LOCATION
D4	SHALLOW LENSED DOWNLIGHT WITH SPECULARALUMINUM	JANMAR 813E-32DTA-AR40HFD-SA-LMP	ELECTRONIC (1)	34 1	32W 4-PIN GX24q-3 INCLUDED	
D5	SAME AS TYPE D4 EXCEPT WITH DIFFERENT LAMP	813-130TA-AR40HFD-PCH-LMP	MAGNETIC (1)	17 1	13W 2-PIN GX24q-1 INCLUDED	LISTED FOR WET LOCATION
E2	EXTERIOR WALL PACK ABOVE DOOR	SERO WLS-70MH-XH	ELECTRONIC (1)	95 1	70W M.H. SYLVANIA F032/741 T8	
F4	4-FOOT STRAIGHTLINE UTILITY CHANNEL	COLUMBIA CS4-232-EB8-120	ELECTRONIC (1)	65 2	SYLVANIA F032/741 T8	
G3	DECORATIVE WITH CHROME PLATED CANOPY AND BLACK CORD	LBL LIGHTING HS242-(color)-PC-13Q	ELECTRONIC (1)	17 1	13W PL QUAD GX23-2 2-PIN	REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR ELEVATIONS HEIGHTS.
G4	DECORATIVE WITH RED CANOPY AND BLACK CORD	H-STL7803-C-97/7	MAGNETIC (1)	100 1	INCANDESCENT - 100W	RED FINISH: SW#6866
K1	TRACK HEAD OR MONOPOINT	JUNO T620BL	ELECTRONIC (1)	75 1	SYLVANIA 75PAR30/CAP/FL	REFER TO PLAN TO PROVIDE TRACK (LENGTH PER PLAN) OR MONOPOINT BASE.
Kx	4-FOOT WALL WASH, RECESSED	LIGHTOLIER WLRN244120SB	ELECTRONIC (1)	65 2	SYLVANIA F032/741 T8	
WS1	3-FOOT WALL MOUNT	TEXAS FLUORESCENTS WPU-225	ELECTRONIC (1)	48 2	SYLVANIA F032/741 T8	
X1	LED EXIT SIGN WITH 90MIN BATTERY	PRESCOLITE XT3R-EN-W	ELECTRONIC (1)	2 2	LED INCLUDED	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X2	EMERGENCY LIGHT WITH 90MIN. BATTERY PACK SURFACE MOUNTED	PRESCOLITE EDS2	ELECTRONIC (1)	8 4	INCLUDED 7 2W SBT	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES

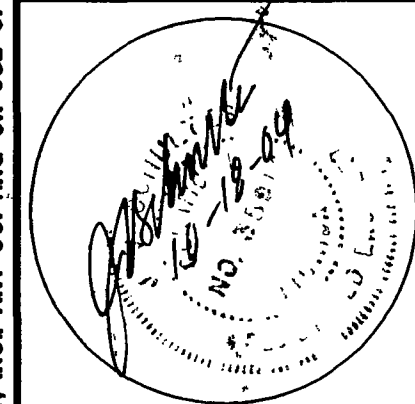
NOTE: GENERAL CONTRACTOR SHALL PROVIDE 'SYLVANIA' LAMPS IN ALL FIXTURES. VOLTAGE FOR ALL FIXTURES IS 120V.



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CHUCK E. CHEESE'S PIZZA.
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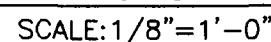


Date
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Revisions

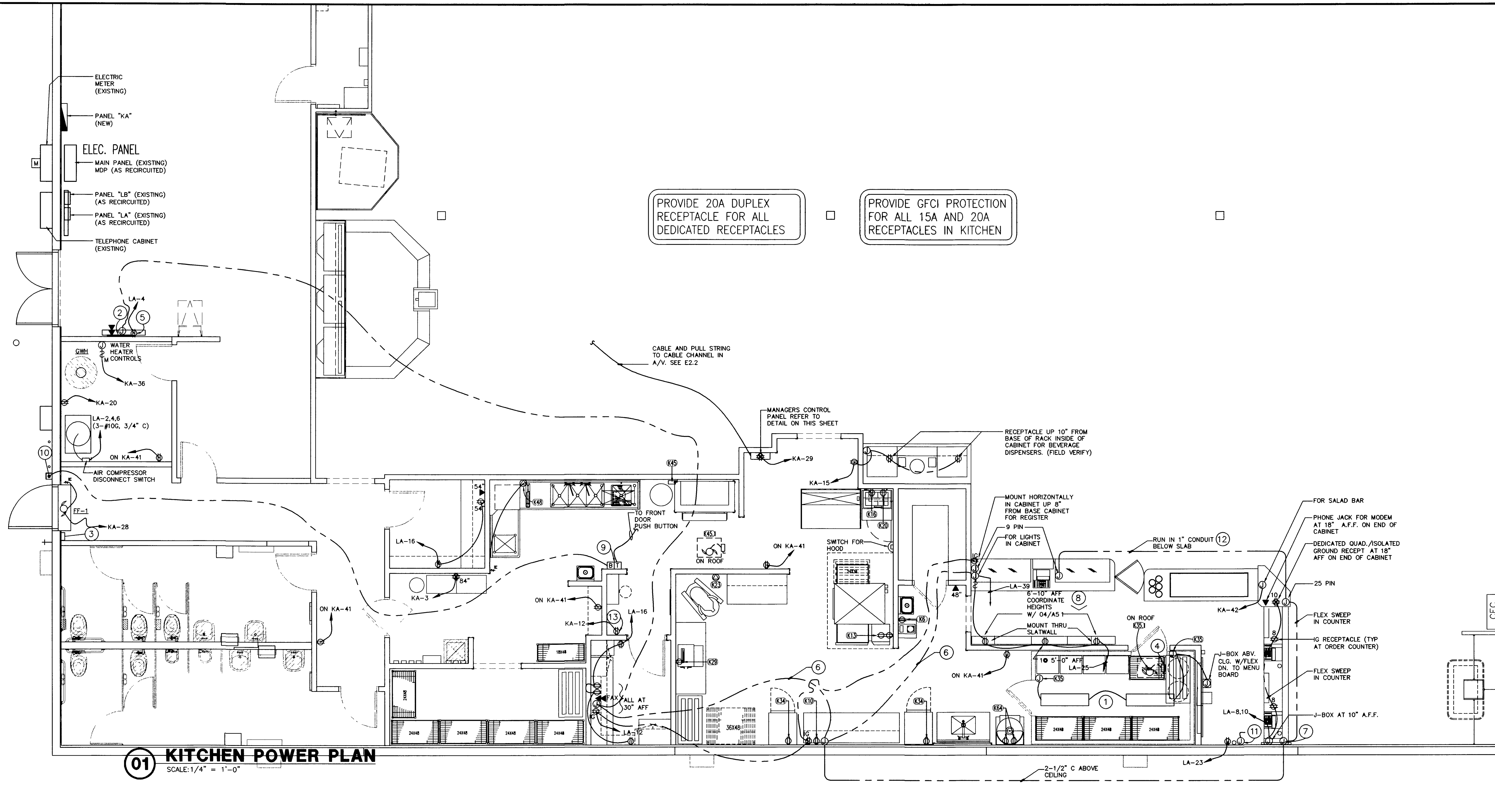
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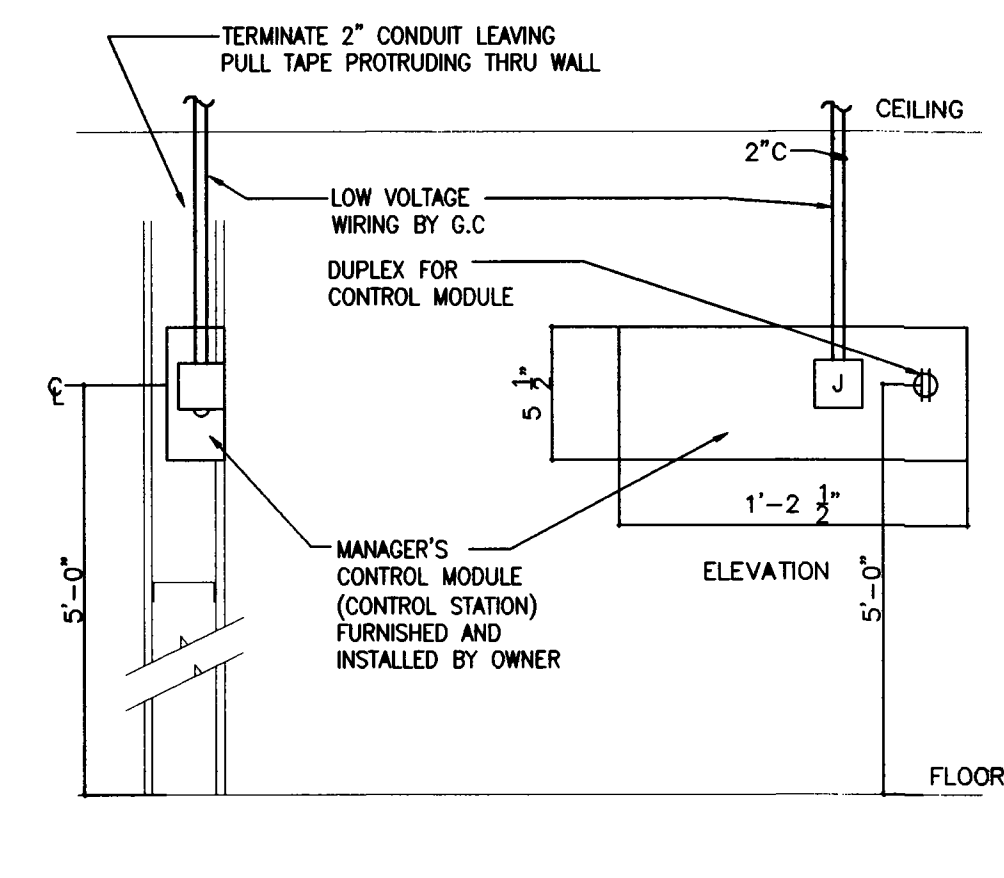


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Project Number SB-780	Sheet Number E1.2 of 5

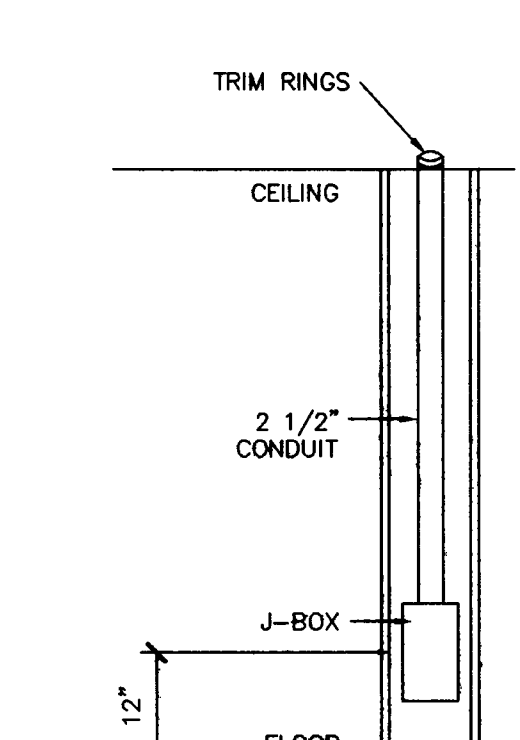
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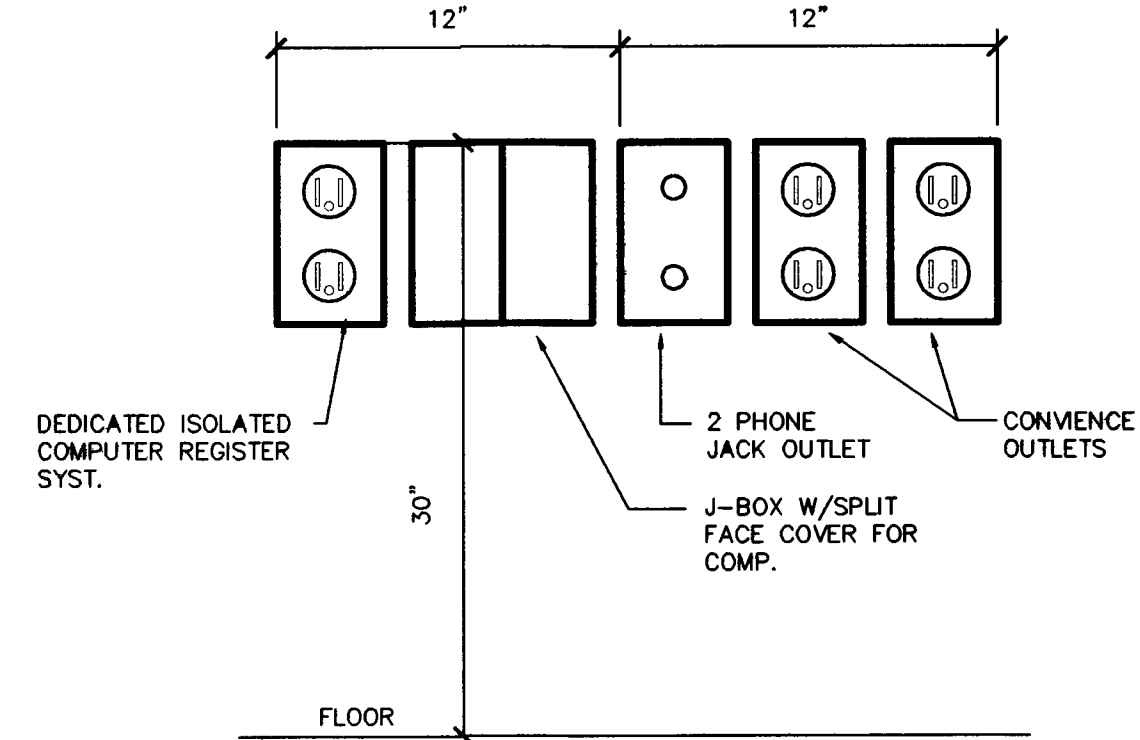
01 KITCHEN POWER PLAN
SCALE: 1/4" = 1'-0"



02 MANAGER PANEL DETAIL
SCALE: NONE



03 J-BOX DETAIL
SCALE: NONE



04 OFFICE OUTLETS
SCALE: NONE

FOODSERVICE ELECTRICAL CIRCUITING SCHEDULE

ITEM #	VOLT	#	TYPE	HGT	DESCRIPTION	LOAD	NOTES: NEMA 5-20R UNLESS NOTED OTHERWISE	2#12,1#12G 1/2"C UNLESS NOTED OTHERWISE	CIRCUIT #
K3	120	1	D.C.O.	18"	REFRIGERATOR, REACH-IN TFS MODEL TS-23	15 1/3	115/60/1		KA-27
K6	120	1	D.C.O.	32"	COFFEE BREWER	17			KA-1
K10	120	1	D.C.O.	72"	REFRIGERATED COUNTER, PIZZA TOP	5	10 1/2		KA-2
K13	120	1	S.C.O.	18"/46"	DBL. STACK PIZZA OVEN MODEL #1450	5			KA-17 & 19
K16	240	1	S.C.O.	72"	PIZZA CUT TABLE W/ HEAT STRIPS #CUT TABLE	67			KA-21/23
K20	115	1	D.C.O.	18"	REFRIG. COUNTER, SAND TOP TFS#TSU-48-B	10 1/3			KA-25
K23	208	3	WST-LK 42"		NEMA L15-20 NSF-7	8.6 2.5			KA-30/32/34
K29	120	1	S.C.O.	50"	SUMMERSET MODEL #R-2000	12.5 3/4			KA-13
K34	120	1	S.C.O.	50"	REACH-IN FREEZER	14.0 3/4			KA-31 & KA-40
K35	120	1	J.B.		WALK-IN COOLER/LIGHTS/EVAP	10.0			KA-39
K35.1	208	3	J.B.		WALK-IN COOLER CONDENSER	10.75			KA-33/35/37
K37	120	1	D.C.O.	18"	CHEST FREEZER	10 1/3			KA-7
K45	208	3	DISC 72"		MANITOWOC #GY 1894N ICE MACHINE	15.5 5.3KW			KA-22/24/26
K45.1	240	1	DISC	72"	PROVIDE 30A/2P/3A FUSED DISC, NEMA 3R	1.3			KA-8/10
K48	120	1	WST-LK 60"		HOBART MODEL #HT-1	14 3/4			KA-5
K64	120	1	D.C.O.	18"	GOLD METAL #300SSS COTTON CANDY MACHINE	10 1/3			KA-4 (30 A)/KA-12 (20A)

NOTES BY SYMBOL

- E.C. TO FIELD PROVIDE CONDUCTORS, CONDUIT, BOXES AND FINAL CONNECTIONS FOR COOLER, TEMPERATURE CONTROLS - LIQUID LINE, SOLENOID VALVES, DEFROST TIME CLOCK LIGHT FIXTURES AND SWITCHES FURNISHED BY COOLER SUPPLIER.
- GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL 2"x4"x3/4" PLYWOOD FOR TELEPHONE BOARD. INSTALLATION SHALL BE PER TELEPHONE COMPANY SPECIFICATIONS AND REQUIREMENTS. INSTALL AS CLOSE TO CEILING AS POSSIBLE. COORDINATE TELEPHONE POINT OF CONNECTION TO THIS TELEPHONE CO. FOR NINE TEL. LINES.
- PROVIDE DISCONNECT SWITCH TO EQUIPMENT PER MANUFACTURER SPECIFICATIONS.
- 30 AMP, 208V 3 PHASE FUSED DISCONNECT MOUNTED IN NEMA 1 ENCLOSURE ON WALK-IN COOLER FOR CONDENSER UNIT.
- AT 8'-0" AFF FOR SECURITY SYSTEM. COORDINATE WITH OWNER AND INSTALLER.
- RUN OWNER SUPPLIED KITCHEN PRINTER CABLE ABOVE CEILING FROM 30" AFF CENTER OF MANAGERS OFFICE DESK (9-PIN END) TO 6" AFF PIZZA MAKE TABLE (25-PIN END) COVER WITH SPLIT PLATE - BOTH ENDS
- PULL OWNER PROVIDED RJ-45 POS CABLE FROM END OF COUNTER TO ABOVE CEILING AND DOWN TO 30" AFF AT MANAGER OFFICE DESK
- REFER 04/A5.1 FOR HORIZONTAL MOUNTING LOCATIONS OF DUPLEX AT SLATWALL.
- LOW-VOLTAGE TRANSFORMER AND BELL FOR SERVICE DELIVERIES. MOUNT AT +96" AFF ON WALL. MAKE ALL FINAL POWER AND CONTROL WIRING CONNECTIONS.
- DOOR BELL PUSHBUTTON (EDWARDS #690) MOUNTED AT 72" AFF TWO EACH WITH FACEPLATE (EDWARDS #149-1).
- PROVIDE JUNCTION BOX AT 60" AFF W/WHIP TO MARKETING LIGHT BOX & CONVENIENCE OUTLET AT 18" AFF.
- PULL OWNER PROVIDED RJ-45 POS CABLE ABOVE CEILING FROM OFFICE TO TELEPHONE BOARD.
- INSTALL WALL MOUNTED RECEPTACLE # 72" A.F.F. AT TV CABINET.



ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040

CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

PERMIT SET
780
OCALA, FL
KITCHEN POWER PLAN

Date
10/18/2004

Revisions

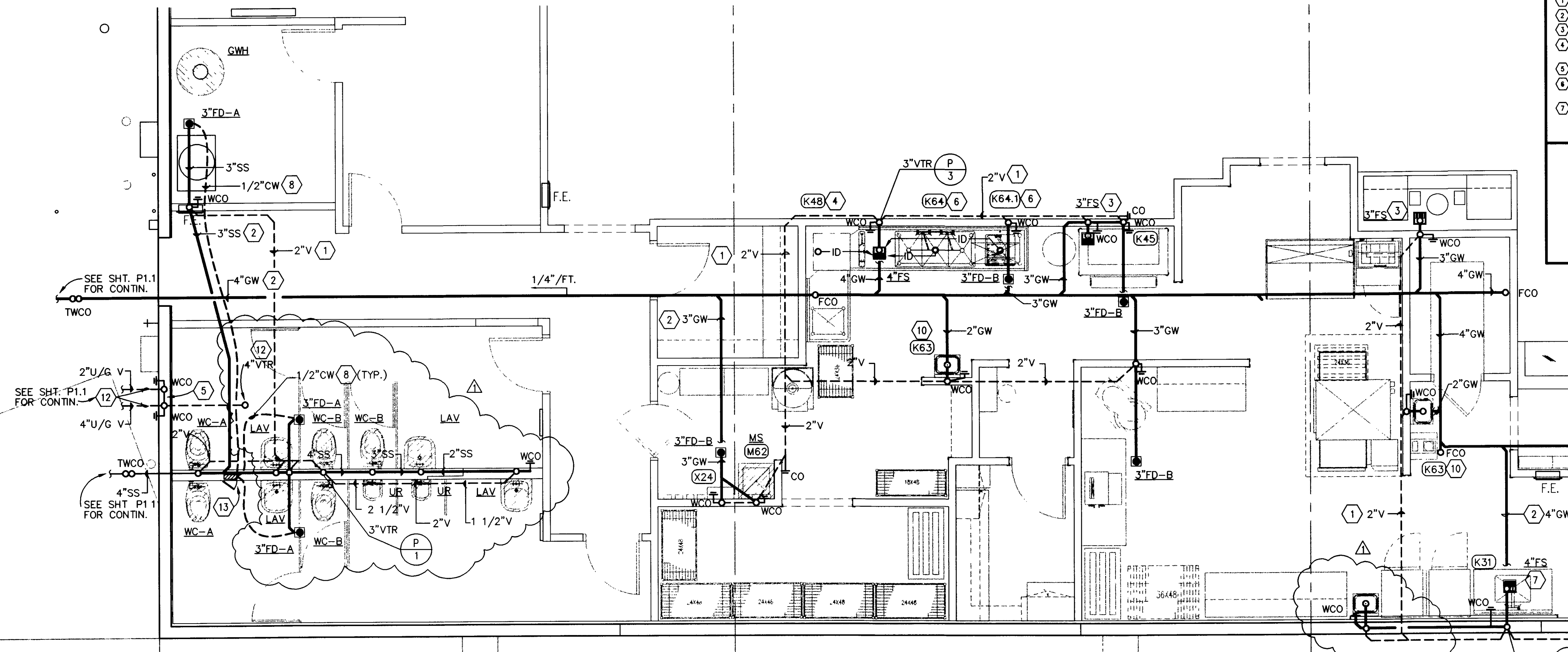
Project Number
SB-780

Sheet Number
E2.1
of 5

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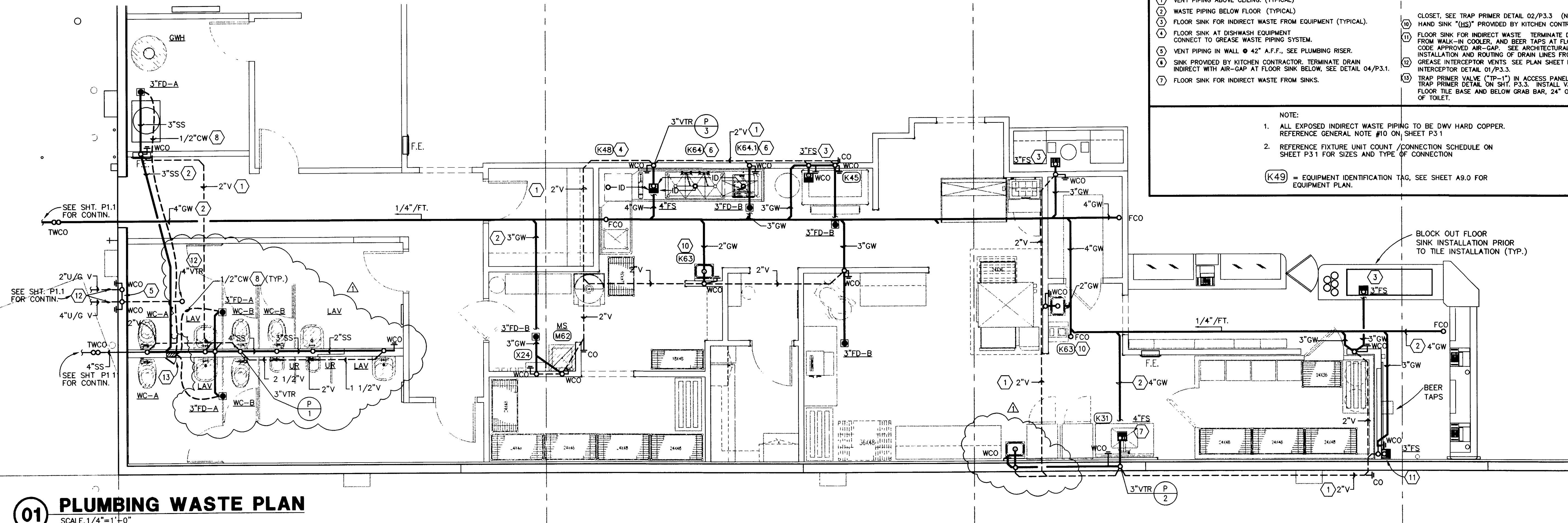
02 PLUMBING WATER PLAN

SCALE: 1/4"=1'-0"



01 PLUMBING WASTE PLAN

SCALE: 1/4"=1'-0"



NOTES BY SYMBOL (WATER)

- 1 INSULATED HOT AND COLD WATER PIPING ABOVE CEILING. (TYPICAL)
- 2 1 1/2" HOT & COLD WATER PIPING AT WATER HEATER. SEE W.H. DETAIL 01/P3.1. TERMINATE T&P RELIEF DRAIN AT 3"FD BELOW.
- 3 INSULATED H. & C. WATER DOWN IN WALL TO FIXTURE. INSULATE ALL WATER PIPING IN WALLS (TYPICAL).
- 4 WATER PIPING IN WALL TO TOILET ROOM FIXTURES. PROVIDE HAMMER ARRESTER AND ACCESS PANEL LOCATED IN MEN'S ROOM. INSTALL ABOVE FLOOR TILE BASE AND BELOW GRAB BAR, 24" OFF CENTER OF TOILET.
- 5 INSTALL MIXING VALVE "MV-1" AT FIXTURE, CONNECT TO SUPPLY PIPING TO FIXTURE, SET WATER TEMP. 110°F. SEE DETAIL 18/P3.2. INSTALL MIXING VALVE ABOVE CEILING AT HAND SINKS AND BELOW FIXTURE AT LAVATORIES.
- 6 3/4" H&C WATER SUPPLY PIPING DN. IN WALL TO MOP SINK.
- 7 PROVIDE DUAL CHECK VALVE "CHUDNOW" SERIES #914 (OR EQUAL) WITH ASSE 1032 LISTING. INSTALL AT EQUIPMENT CONNECTIONS. FOR SODA EQUIPMENT, VALVE MUST BE STAINLESS STEEL. PROVIDE WATTS 0090T (RPZ) BEFORE DUAL CHECK VALVE. SEE DETAIL 02/P3.1.
- 8 3/4" HOT AND COLD WATER PIPING DOWN IN WALL WITH 1/2" SUPPLIES (12" AFF) TO 3-COMP SINK FAUCETS.
- 9 ICE MACHINE 3/4" WATER SUPPLY TO WATER FILTER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO WATER FILTER. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
- 10 1/2" HOT AND COLD WATER TO PRE RINSE. INSTALL SUPPLIES 12" A.F.F.
- 11 1/2" WATER SUPPLY 38" A.F.F. FOR COFFEE MAKER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO EQUIPMENT. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
- 12 3/4" HOT (140°F) WATER TO LOW TEMP. DISHWASHER. PROVIDE RPZ VALVE. INSTALL AT 61-3/4" A.F.F.
- 13 PROVIDE AND INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER "WATTS 007-QT" BACKFLOW PREVENTER. INSTALL DCV ON MAIN WATER SERVICE. MOUNT UNIT ON WALL 5'-0" A.F.F. MAX. COORDINATE WITH OTHER EQUIPMENT ON WALL UNIT MUST BE TESTABLE AND INSTALLED AT HEIGHT ACCESSIBLE FOR TESTING.
- 14 INSTALL CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO MOP SINK.
- 15 1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT. (PROVIDE RPZ VALVE). SEE DETAIL 19/P3.2.
- 16 GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 01/P3.1.
- 17 LOW PRESSURE GAS CONNECTION POINT FOR PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL 08/P3.2.

NOTE:
REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P3.1 FOR WATER SUPPLY SIZES AND INSTALLATION HEIGHTS.

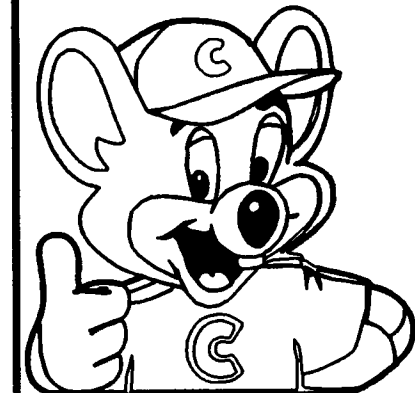
NOTES BY SYMBOL (WASTE)

- 1 VENT PIPING ABOVE CEILING. (TYPICAL)
- 2 WASTE PIPING BELOW FLOOR. (TYPICAL)
- 3 FLOOR SINK FOR INDIRECT WASTE FROM EQUIPMENT (TYPICAL).
- 4 FLOOR SINK FOR INDIRECT WASTE. TERMINATE DRAIN PIPING FROM WALK-IN COOLER, AND BEER TAPS AT FLOOR SINK WITH CODE APPROVED AIR-GAP. SEE ARCHITECTURAL DETAIL FOR INSTALLATION AND ROUTING OF DRAIN LINES FROM BEER TAPS.
- 5 VENT PIPING IN WALL 42" A.F.F., SEE PLUMBING RISER.
- 6 SINK PROVIDED BY KITCHEN CONTRACTOR. TERMINATE DRAIN INDIRECT WITH AIR-GAP AT FLOOR SINK BELOW. SEE DETAIL 04/P3.1.
- 7 FLOOR SINK FOR INDIRECT WASTE FROM SINKS.
- 8 CLOSET, SEE TRAP PRIMER DETAIL 02/P3.3 (NOT USED)
- 9 HAND SINK (H&S) PROVIDED BY KITCHEN CONTRACTOR
- 10 FLOOR SINK FOR INDIRECT WASTE. TERMINATE DRAIN PIPING FROM WALK-IN COOLER, AND BEER TAPS AT FLOOR SINK WITH CODE APPROVED AIR-GAP. SEE ARCHITECTURAL DETAIL FOR INSTALLATION AND ROUTING OF DRAIN LINES FROM BEER TAPS.
- 11 GREASE INTERCEPTOR VENTS. SEE PLAN SHEET P1.1 AND GREASE INTERCEPTOR DETAIL 01/P3.3.
- 12 TRAP PRIMER VALVE ("TP-1") IN ACCESS PANEL. SEE TRAP PRIMER DETAIL ON SHT. P3.3. INSTALL VALVE ABOVE FLOOR TILE BASE AND BELOW GRAB BAR, 24" OFF CENTER OF TOILET.

- NOTE:
1. ALL EXPOSED INDIRECT WASTE PIPING TO BE DWV HARD COPPER. REFERENCE GENERAL NOTE #10 ON SHEET P3.1
 2. REFERENCE FIXTURE UNIT COUNT / CONNECTION SCHEDULE ON SHEET P3.1 FOR SIZES AND TYPE OF CONNECTION

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET A9.0 FOR EQUIPMENT PLAN.

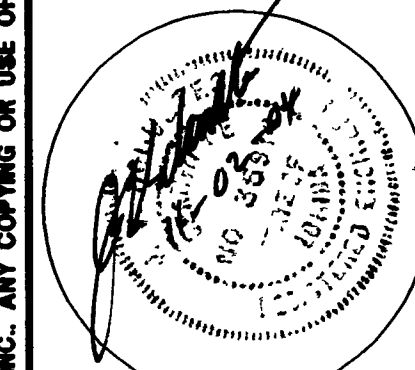
BLOCK OUT FLOOR SINK INSTALLATION PRIOR TO TILE INSTALLATION (TYP.)



PERMIT SET
ARCHITECTURE - PLANNING - DESIGN
C.T. CHANG, A.I.A.
1010 W. EULESS BLVD., SUITE 110
EULESS, TX 76040
817-354-8010

PERMIT SET

780
OCALA, FL
CHUCK E. CHEESE'S PIZZA.
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062
PARTIAL PLUMBING FLOOR PLAN



Date
10/18/2004
Revisions
11/02/04 BLDG. / HEALTH COMMENTS
Project Number
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P2.1
of 6

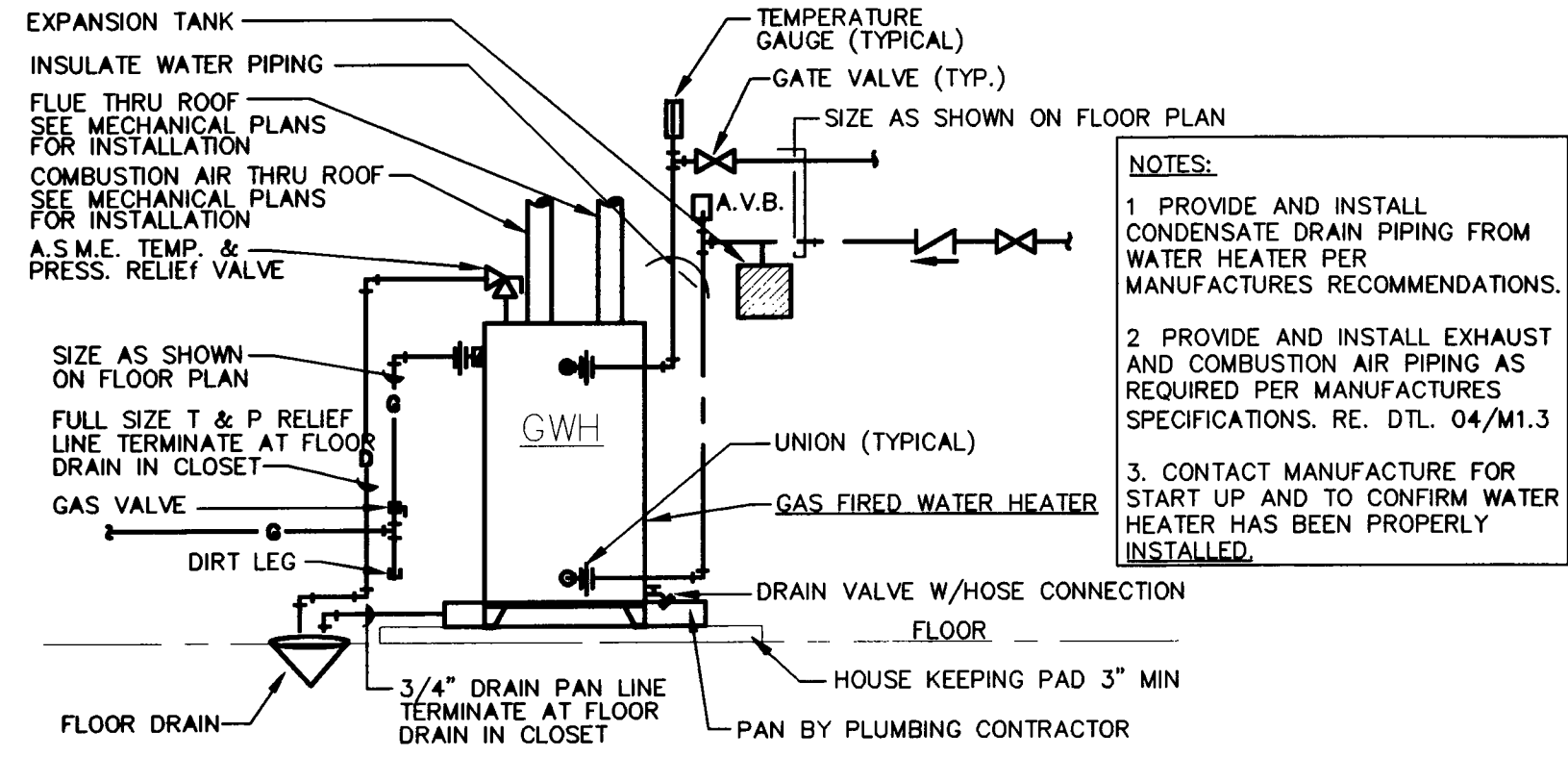
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PLUMBING FIXTURE UNIT COUNT / CONNECTION SCHEDULE

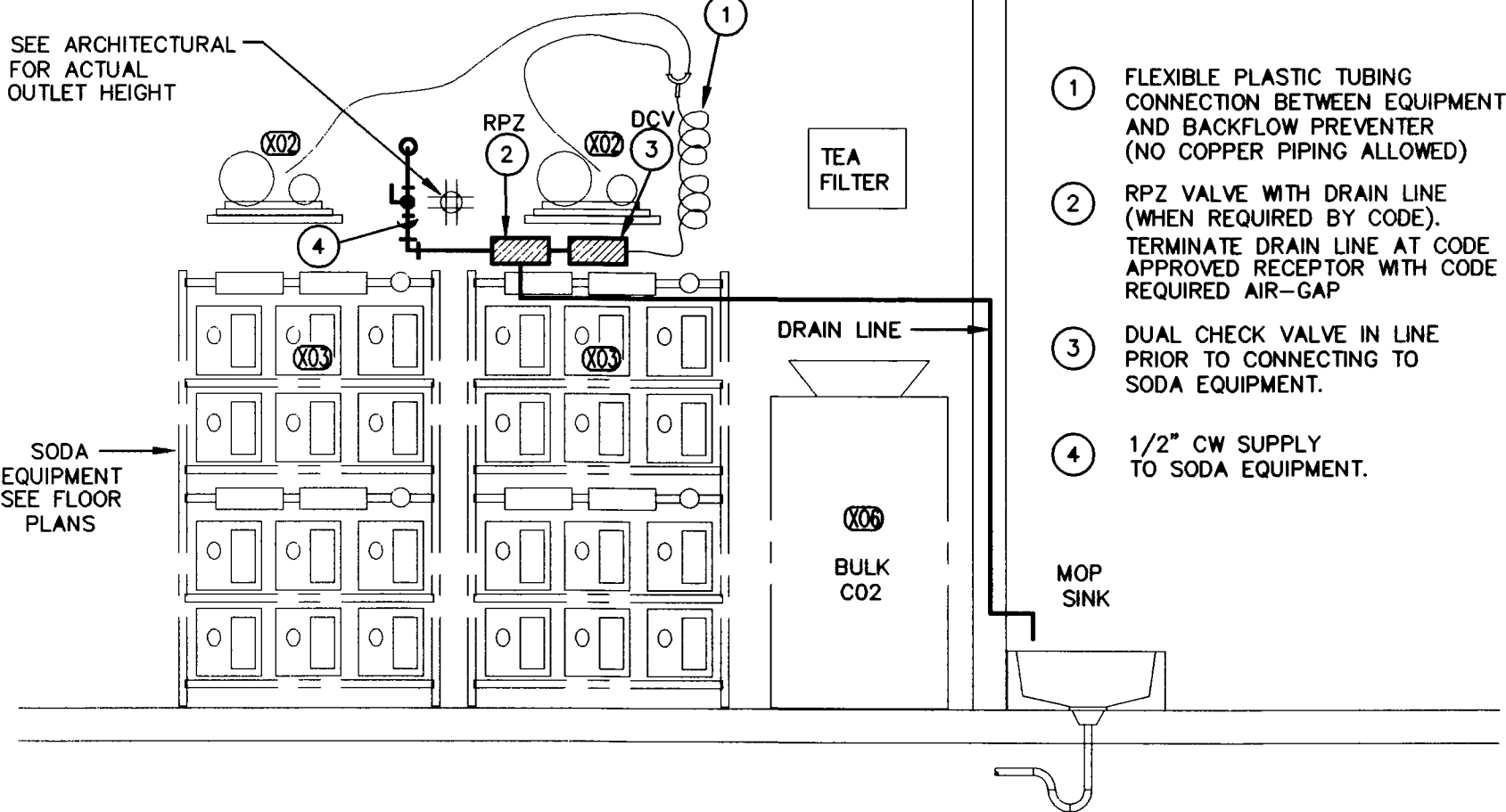
ITEM	DESCRIPTION	LOCATION	QTY	TRAP SIZE	SAN F.U.	TOTAL SAN F.U.	F.W. F.U.	C.W. F.U.	H.W. F.U.	H.W. TEMP.	SUPPLY SIZE	TOTAL WTR F.U.	COMMENTS
WC-A	WATER CLOSET (HC)	TOILET ROOM	2	3"	6	12	-	10	-	-	1"	20	(HC) HEIGHT WATER CLOSET WITH FLUSHVALVE HANDLE INSTALLED ON ACCESSIBLE SIDE OF STALL
WC-B	WATER CLOSET	TOILET ROOM	3	3"	6	18	-	10	-	-	1"	30	STANDARD HEIGHT WATER CLOSET
UR	URINAL	TOILET ROOM	2	2"	2	4	-	5	-	-	3/4"	10	INSTALL AT (HC) HEIGHT WITH F.V. HANDLE ON ACCESSIBLE SIDE
LAV	LAVATORIES	TOILET ROOM	4	1.25"	1	4	-	1	1	TEMPERED 110° F.	1/2"	8	COVER DRAIN AND WATER PIPING WITH TRU-BRO LAV GUARD
FD-A	FLOOR DRAIN	TOILET ROOM	2	3"	5	10	-	-	-	-	-	-	PROVIDE TRAP PRIMER, SEE DETAIL
FD-A	FLOOR DRAIN	GW & COMP. ROOM	1	3"	5	5	-	-	-	-	-	-	PROVIDE TRAP PRIMER, SEE DETAIL
TOTAL SANITARY WASTE FU's					SUBTOTAL		53	SUBTOTAL DOM. WATER FU's				68	

FIXTURE UNIT COUNT (KITCHEN WASTE)

K45/FS	ICE-MACHINE	BEVERAGE	1	3" FS	5	5	1	-	-	-	1/2"	1	FULL SIZE DRAIN INDIRECT TO F.S. UNDER BEVERAGE COUNTER ITEM #45. WATER SUPPLY AT 73 3/4" A.F.F. WATER SUPPLY THRU FILTER, SEE KITCHEN EQUIPMENT MANUAL	
K49	ICE MACHINE WATER FILTER	BEVERAGE	1	-	-	SHARE W/K45	-	1	-	-	3/4"	SUPPLY TO ITEM 45 & K6	PROVIDE BACKFLOW PREVENTION AT WATER FILTER SUPPLY CONNECTION. SEE BACKFLOW PREVENTER SCHEDULE	
FD-B	FLOOR DRAIN	BEVERAGE	1	3" FD	5	5	-	-	-	-	-	-		
K48/FS	DISHMACHINE	DISHWASH	1	4" FS	6	6	-	-	4	140" F.	3/4"	4	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 61 3/4" A.F.F. SEE KITCHEN EQUIPMENT MANUAL	
K46/FS	3-COMP SINK	DISHWASH	1	-	-	SHARE W/K48	-	4	4	140" F.	1/2"	8	2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. (2 FAUCETS) SEE KITCHEN EQUIPMENT MANUAL	
K46.1/FS	PRE-RINSE	DISHWASH	1	-	-	SHARE W/K48	-	2	2	140" F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. SEE KITCHEN EQUIPMENT MANUAL	
-	-	-	-	-	-	-	-	-	-	-	-	-		
FD-B	FLOOR DRAIN	DISHWASH	1	3" FD	5	5	-	-	-	-	-	-		
K83/FS	SALAD BAR	KITCHEN	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FROM COLD PANS	
K31	PREP SINK	KITCHEN	1	4" FS	6	6	-	2	2	140" F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 18" A.F.F. SEE KITCHEN EQUIPMENT MANUAL	
-	-	-	-	-	-	-	-	-	-	-	-	-		
K63	HAND SINK	KITCHEN	△	3	1.25"	1	3	-	1	1	110" F.	1/2"	6 △	DIRECT CONNECT DRAIN, WATER AT 18" A.F.F., SEE KITCHEN EQUIPMENT MANUAL
X03	BAG-IN-BOX	CORRIDOR	1	-	-	- △	-	1	-	-	1/2"	1	WATER SUPPLY AT 78" A.F.F. PROVIDE RPZ VALVE WITH INDIRECT AT MOP SINK.	
FD-B	FLOOR DRAIN	CORRIDOR	1	3" FD	5	5	-	-	-	-	-	-		
MS (K62)	MOP SINK	CORRIDOR	1	3"	5	5	-	2	2	140" F	3/4"	4	PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON SUPPLIES ABOVE CEILING INSTALL FAUCET AT 42" A.F.F.	
X24	ECOLAB	MOP SINK	1	-	-	-	-	2	-	-	1/2"	2	COLD WATER SUPPLY ONLY - PROVIDE RPZ VALVE PRIOR TO CONNECTING TO ECOLAB EQUIPMENT	
FS-A	FLOOR SINK	WALK IN COOLER BEER TAPS	1	3" FS	5	5	-	-	-	-	-	-	FOR INDIRECT WASTE FROM COOLER AND OTHER EQUIPMENT.	
M5/FS	BEVERAGE COUNTER	BEVERAGE	1	3" FS	5	5	-	-	-	-	-	-	NOTE: DRAIN BEVERAGE DISPENSING EQUIPMENT AND ADJACENT ICE MACHINE ICE BIN AT FLOOR SINK. PROVIDE CODE REQUIRED AIR-GAP FOR INDIRECT WASTE.	
FD-B	FLOOR DRAIN	KITCHEN	1	3" FD	5	5	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL GREASE WASTE FU's					SUBTOTAL		60	SUBTOTAL DOM. WATER FU's					34	
SAN - TOTAL: 53 FU's = 52 GPM FLOW														
GW - TOTAL: 59 FU's = 32 GPM FLOW														
TOTAL COMBINED SANITARY WASTE FU's							113	TOTAL DOM. WATER FU's					102	
DOM. WTR		100 TOTAL FU's = 67 GPM = 2" DOMESTIC WATER SERVICE, 1 1/2" WATER METER, 2" DCV BFP												
SAN. WASTE		112 TOTAL FU's = 70 GPM = 4" WASTE PIPING @ 1/4" PER FOOT SLOPE												



01 GAS WATER HEATER
SCALE: NONE



02 SODA SYSTEM B.F.P.
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER AND MODEL
LAV	LAVATORY WHITE VITREOUS CHINA 21" X 22" WALL HUNG WITH KNEE SHROUD AND SINGLE HANDLE FAUCET WITH GRID DRAIN (NO POP-UP) SHROUD. MOD # 0059.020	AMERICAN STANDARD "MURRO" 0954.000.020 FAUCET: AMERICAN STANDARD 1480.115 TRAP: MCGUIRE 8872 (LAV-GUARD) DRAIN (GRID): MCGUIRE 155-WC (LAV-GUARD) SUPPLIES: MCGUIRE 167 (LAV-GUARD) CARRIER. ZURN SERIES Z-1231
WC-A	WATER CLOSET WHITE VITREOUS CHINA ELONGATED SIPHON JET FLOOR MOUNTED 17" HIGH FOR HANDICAP	AMERICAN STANDARD "MADERA" 3043.102.020 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
WC-B	WATER CLOSET WHITE VITREOUS CHINA SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD "MADERA AQUAMETER" 2234.015 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
UR	URINAL-ADA WHITE VITREOUS CHINA WASHOUT WALL HUNG	AMERICAN STANDARD "ALLBROOK" 6541.132.020 FLUSH VALVE: SLOAN 186-1 CARRIER: JOSAM 17810 SERIES
MS	MOP SINK TERRAZZO 24" X 24" FLOOR MOUNTED WITH HOSE & BRACKET, MOP HANGER AND VINYL BUMPERGUARD	FIAT MOD # TSB-200 FAUCET: FIAT 830-AA; HOSE & BRACKET: 832-AA MOP HANGER: FIAT 889-CC; STRAINER: 1453-BB BUMPERGUARD: FIAT E-77-AA
FD-A	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN "JONESPEC" MOD.# FD-2280-PV PROVIDE P-TRAP WITH TRAP PRIMER CONNECTION CHECK CONNECTION SIZE WHEN ORDERING
FD-B	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN "JONESPEC" MOD.# FD-2280-PV CHECK CONNECTION SIZE WHEN ORDERING
FS	FLOOR SINK W/FULL GRATE AND REMOVABLE PLASTIC SECONDARY STRAINER	DRAIN "JONESPEC" MOD.# FD-2370-PV CHECK CONNECTION SIZE WHEN ORDERING
GW	WATER HEATER LOW NOX - COMMERCIAL TANK TYPE WATER DELIVERY TEMP - SET 140° WTR WITH ELECTRONIC CONTROLS AND DIRECT VENT	WATTS MODEL # USG-B-SC (SET AT 110°) SATIN CHROME FINISH WOODFORD SERIES B65 LOOSE KEY
MV-1	MIXING VALVE ABOVE CEILING AT HAND SINKS BELOW FIXTURE AT LAVATORIES	CLEANOUT: "JONESPEC" MOD.# CO-2450-PV4 W/SCORIATED BRASS COVER
FCO	FLOOR CLEANOUT HEAVY DUTY BOLTED CLEANOUT	CLEANOUT: "JONESPEC" MOD.# CO-2450-PV4 W/SCORIATED BRASS COVER
CO	CLEANOUT (EXTERIOR)	CLEANOUT: "JONESPEC" MOD.# CO-2450-PV4 W/SCORIATED BRASS COVER
WCO	STAINLESS STEEL WALL CLEANOUT ACCESS COVER W/SCREW	COVER: "PROFLO" MOD.# PFC51U 6"

BACKFLOW PREVENTER SCHEDULE

PROVIDE RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER WATTS SERIES # 0090T-SS STAINLESS STEEL WITH ASSE 1013 LISTING, AND DUAL CHECK VALVE CHUDNOW SERIES # 914 (OR EQUAL) WITH ASSE 1032 LISTING. VALVE MUST BE STAINLESS STEEL AT SODA EQUIPMENT WATER SUPPLY CONNECTIONS. PROVIDE FLEXIBLE PLASTIC SUPPLY LINE AT FINAL CONNECTION TO EQUIPMENT (COPPER PIPING NOT ALLOWED).

DESCRIPTION	TAG	VALVE MODEL
SODA EQUIPMENT	DCV	# 914
SODA EQUIPMENT	RPZ	# 0090T-SS
SODA EQUIPMENT	DCV	# 914

PROVIDE BACKFLOW PREVENTER WATTS MODEL # 98D SERIES (OR EQUAL), INSTALL AT EQUIPMENT CONNECTIONS FOR THE ITEMS LISTED BELOW.

DESCRIPTION	TAG	VALVE MODEL
ICE MACHINE	DCV	# 98D
COFFEE	DCV	# 98D

1. PROVIDE APPROVED BACKFLOW PREVENTER ON WATER SUPPLY TO CHEMICAL SANITIZER ON DISH MACHINE, OR WATER SUPPLY TO DISH MACHINE WITH CHEMICAL SANITIZER EQUIPMENT, VERIFY WITH CODE.

2. VERIFY MAIN WATER SUPPLY BACKFLOW PREVENTION REQUIREMENTS WITH LOCAL CODE AT START OF CONSTRUCTION.

DESCRIPTION	TAG	VALVE MODEL
DISH MACHINE	RPZ	# 0090T
MAIN WATER SUPPLY	DCV	# 007-QT

NOTE: ALWAYS VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION

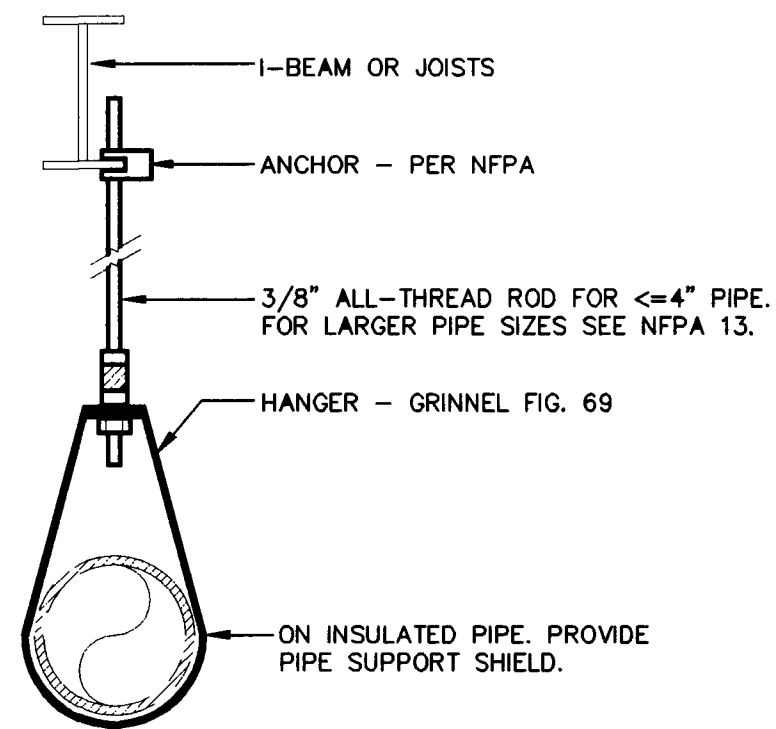
PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—●—	BALL VALVE	—○—	GAS DROP TO EQUIPMENT
—X—	BUTTERFLY VALVE	—W—	WATER SERVICE LINE
—◇—	BALANCING VALVE	—---	DOMESTIC COLD WATER
—V—	CHECK VALVE	—---	DOMESTIC HOT WATER
—◇—	GATE VALVE	—---	DOMESTIC HOT WATER RETURN
—●—	GAS PLUG COCK	—---	SANITARY SEWER VENT
—○—	WATER METER	—---	SANITARY WASTE LINE
—○—	WALL CLEANOUT	—IW—	INDIRECT DRAIN
—○—	FLOOR CLEANOUT	—SD—	STORM DRAIN
—○—	FLOW SWITCH	—F—	FIRE PROTECTION
—○—	FLOOR SINK	—G—	NATURAL GAS LINE
—○—	FLOOR DRAIN	—I—	FLANGE
—○—	FLOOR DRAIN W/FUNNEL	—U—	UNION
—○—	ROOF DRAIN	—○—	BRANCH - TOP CONNECTION
—○—	HUB DRAIN	—○—	BRANCH - BOTTOM CONNECTION
—○—	WALL HYDRANT OR HOSE BIB	—○—	PIPE RISER
—○—	WATER HAMMER ARRESTOR WITH SIZE	—○—	PIPE DROP
—○—	VACUUM BREAKER	—D—	DRAIN LINE
—○—	BACKFLOW PREVENTER	—○—	DIRECTION OF PIPE PITCH
—○—	POINT OF CONNECTION - NEW TO EXISTING	—○—	DIRECTION OF FLOW
—○—	THERMOMETER	—FW—	FILTERED WATER
—○—	GAS PRESSURE REGULATOR		

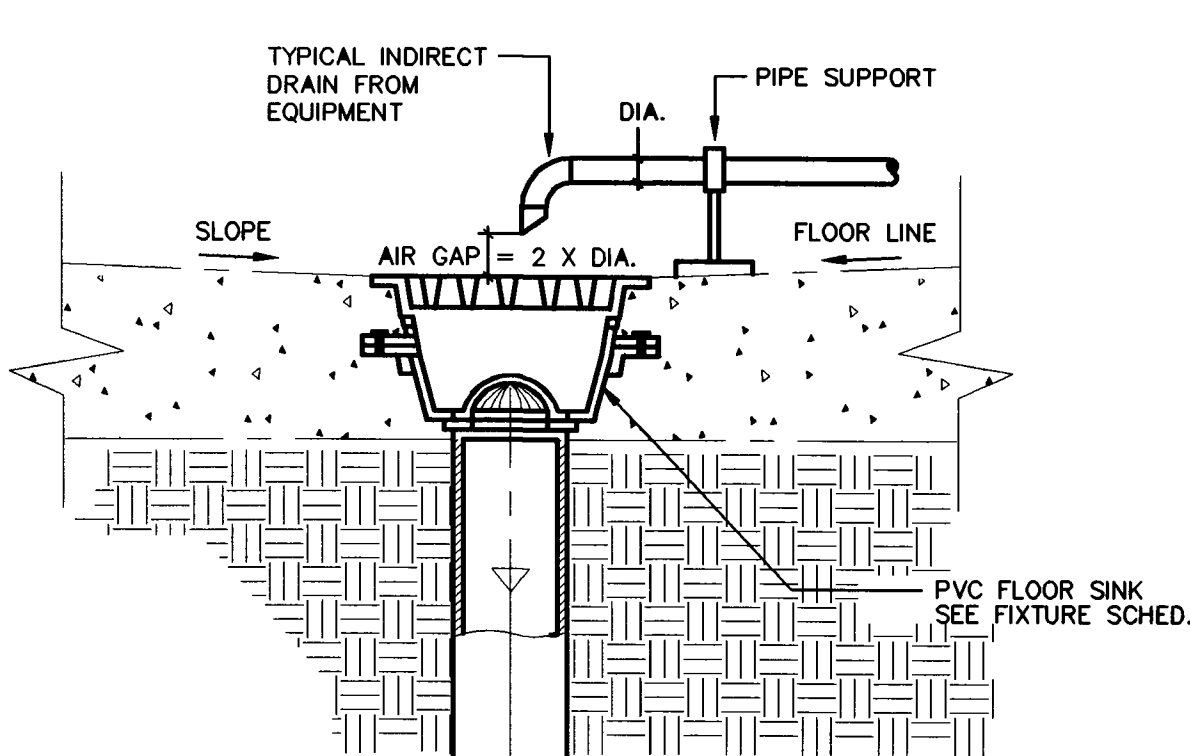
NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

GENERAL PLUMBING NOTES

- VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
- OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS. PROVIDE WALL BACKING FOR ALL WALL MOUNTED PLUMBING FIXTURES AND ACCESSORIES.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS FEES, CHARGES AND METERS
- TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MIN FROM ANY FRESH AIR INTAKES.
- INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
- PROVIDE FAUCETS UNLESS OTHERWISE NOTED, TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.
- RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
- UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
- TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH AIR GAP AIR GAP MUST BE TWICE THE SIZE OF THE INDIRECT DRAIN LINE DIAMETER AND NO LESS THAN 1". PROVIDE AND INSTALL COPPER DWV PIPING "NO PVC PIPING ALLOWED"
- PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS
- VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.
- PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.



03 PIPE HANGER DETAIL
SCALE: NONE

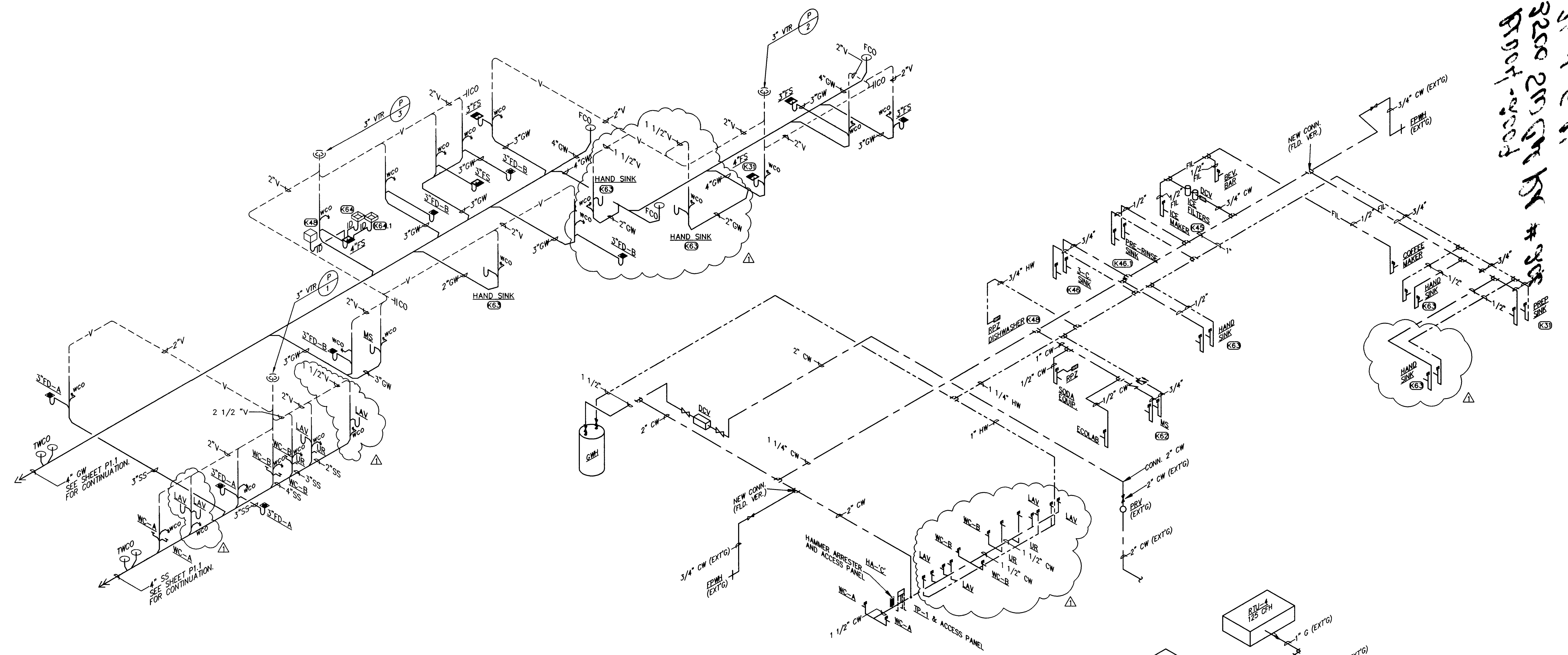


04 FLOOR SINK DETAIL
SCALE: NONE



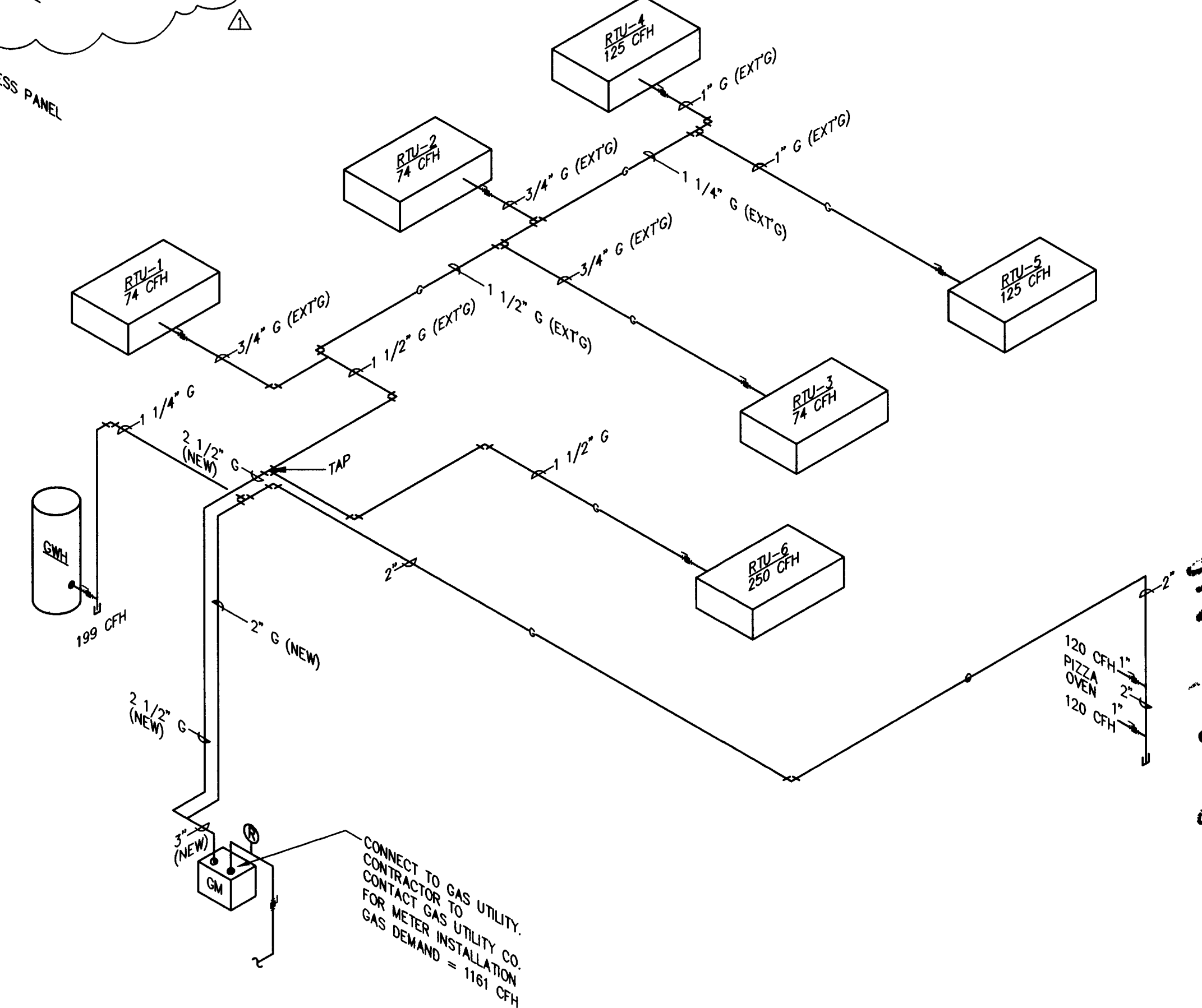
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 COLOR
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 PEN NO.
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 SCREEN %

M700 / PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"



01 PLUMBING WASTE RISER DIAGRAM
SCALE: NONE

02 PLUMBING WATER RISER DIAGRAM
SCALE: NONE



03 PLUMBING GAS RISER DIAGRAM
SCALE: NONE

3500 SW COLLEGE RD UNIT 200
OCALA, FL 32801
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062



PERMIT
#780
OCALA, FL

CHUCK E. CHEESE'S PIZZA
3500 SW COLLEGE ROAD UNIT 200
OCALA, FL
C. E. C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

PLUMBING RISER DIAGRAMS

DATE: 10/18/2004

Revisions
11/02/04 BLDG. / HEALTH COMMENTS

Project Number: SB-780

Sheet Number: **P4.1**
of 6

DWGNO./ PLOT VIEW: PLOT / PLOT SCALE: 1/8"=1'-0"

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	COLOR
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	PER. NO.
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	SCREEN %

GENERAL DEMOLITION NOTES:

1. Beginning of demolition means installer accepts existing conditions.
2. Demolish indicated structures and fixtures in an orderly and careful manner.
3. Protect existing landscape materials, appearances, and structures which are not to be demolished.
4. Erect weatherproof closures for exterior openings created by demolition work.
5. Promptly remove and dispose of contaminated, vermin infested, or dangerous materials.
6. Do not burn or bury materials on site.
7. Remove all floor finishes down to substrate.
8. Remove walls and structures down to surface which may be refinished.
9. Do not cut structural members until adequate bracing has been installed.
10. Where the scope of work requires penetration of the existing slab, the G/C shall verify existing slab's construction type. Do not saw cut conc. slab, core drill only where a slab on grade is to be found, the G/C shall patch, repair and install reinforcing #5 x 18" dowels with 9" embedment @ 18" o.c. along perimeter of new work. G/C to notify owner if a structurally supported slab is to be found existing. Do not cut any portion of the slab's structural reinforcing. The G/C & his Sub-Contractors shall maintain the integrity of the existing slab.

Mechanical Demolition Notes:

1. Disconnect, remove, and cap designated utilities and fixtures within demolition areas.
2. Mark location of disconnected utilities.

Electrical Demolition Notes:

1. Remove abandoned wiring to source of supply.
2. Verify that abandoned wiring and equipment serves only abandoned facilities.
3. Coordinate utility service outages with Watt.
4. Cut conduit flush with or beneath walls and floors, and refinish surfaces.

DEMOLITION NOTES:

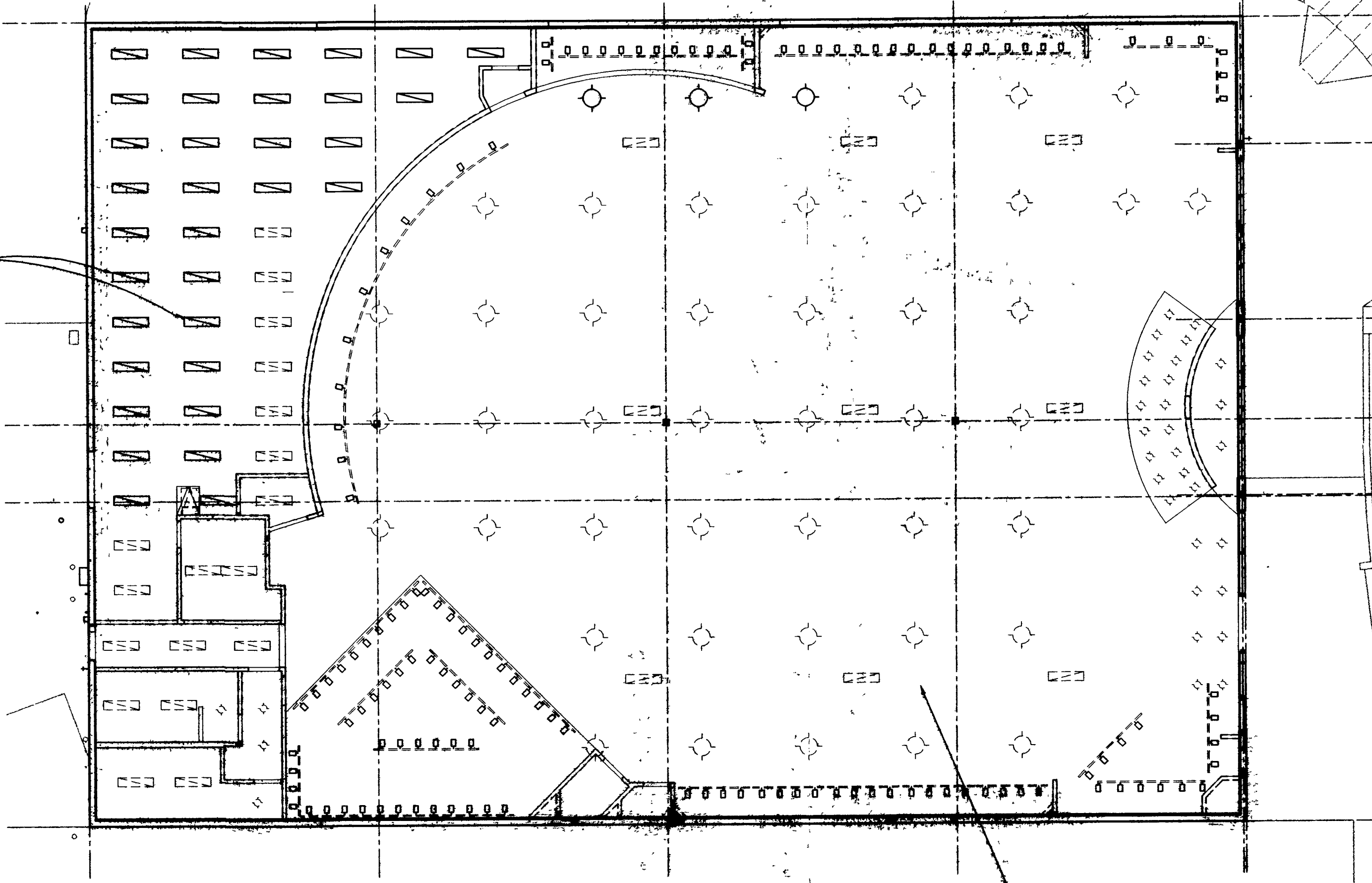
- 1 DEMO EXISTING WALLS AS INDICATED.
- 2 DEMO EXISTING DOORS AND FRAMES AS INDICATED.
- 3 REMOVE PORTION OF EXISTING WALL AS INDICATED. PREPARE FOR NEW WORK. REFERENCE SHEET A1.0 FOR LIMITS OF DEMOLITION.
- 4 REMOVE EXISTING MOP SINK. CAP EXT'G. PLUMBING STUBS AS REQUIRED.
- 5 DEMO EXISTING FLOOR DRAIN THROUGHOUT. CAP STUBS FLUSH W/ FLOOR. PREPARE FOR NEW FLOOR APPLICATION. REF. PLUMBING SHEETS FOR LOCATION.
- 6 REMOVE EXISTING FLOORING THROUGHOUT. PREPARE FOR NEW FLOORING INSTALLATION.
- 7 DEMO ALL EXISTING DECOR & WAINSCOTS. PATCH & PREPARE WALLS FOR NEW FINISH APPLICATIONS.

CONTAMINANTS

1. WHEN SUSPECT MATERIALS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY OWNER OF POSSIBLE CONTAMINANTS & LEAVE AREA UNDISTURBED.
2. CONTAMINATED MATERIALS ARE TO BE REMOVED BY OWNERS IN CONFORMANCE WITH LOCAL CODES & ENVIRONMENTAL/ WORK SAFETY REGULATIONS FOR REMOVAL & DISPOSAL.
3. IF CONTAMINATED MATERIALS ARE FOUND CONTRACTOR SHALL REMEDIATION HAS BEEN DONE IN AN ACCEPTABLE MANNER PRIOR TO COMMENCING OR RESUMING DEMOLITION.

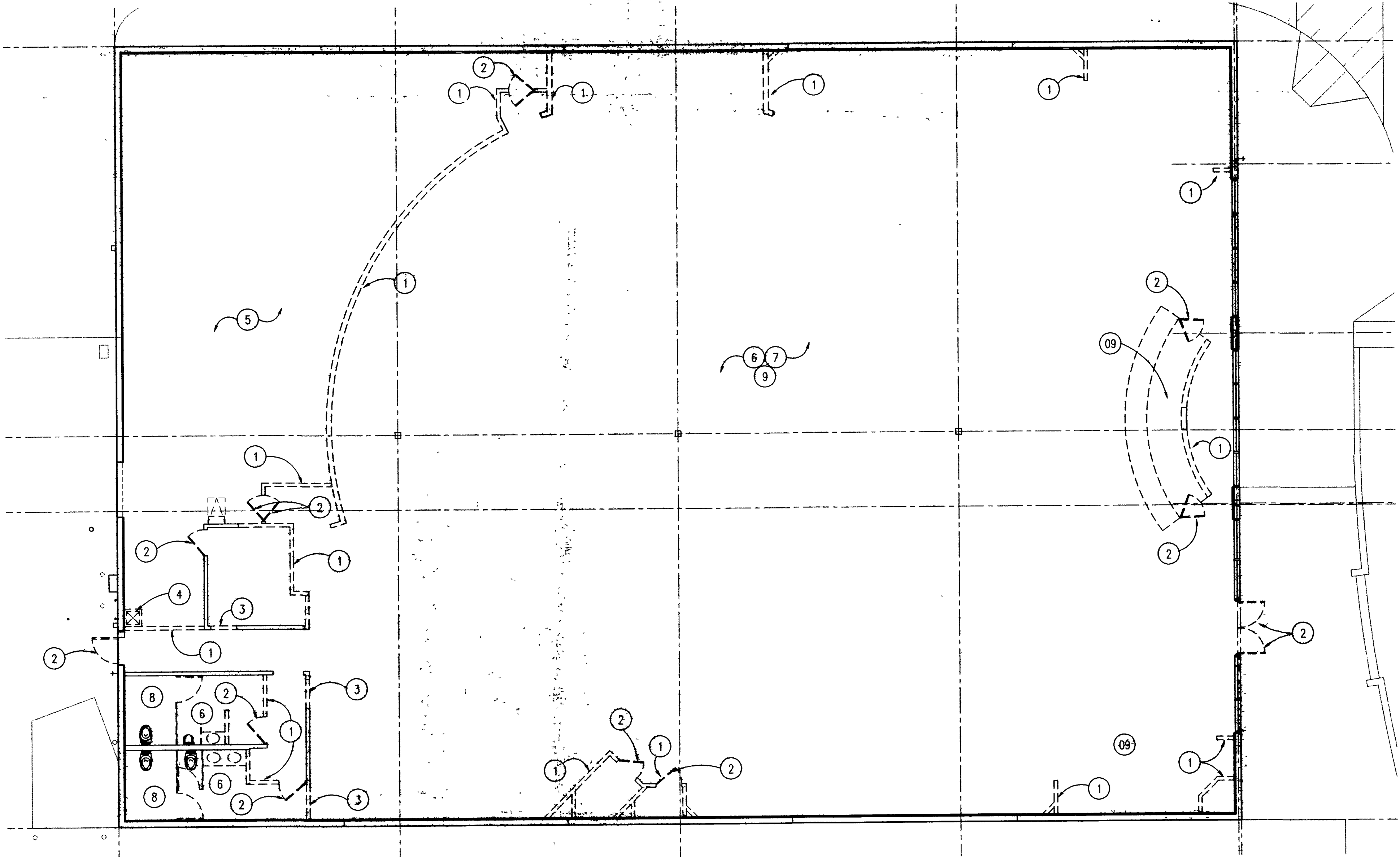
LEGEND

- EXISTING WALLS TO BE DEMOLISHED
- EXISTING WALLS TO REMAIN



CEILING DEMOLITION NOTE:

DEM. EXISTING LIGHTING FIXTURES. REMOVE EXISTING SUPPLY AIR GRILLES FOR REPAIRING AND RELOCATION AS PER SH. A3.0. ALSO, SAME EMERGENCY LIGHT FIXTURES, EXIT LIGHT, AND SMOKE DETECTORS FOR RELOCATION AS PER SH. A3.0.



ALL SANITARY SEWER SERVICES PERTAINING TO THIS SITE SHALL BE FIELD EXCAVATED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION IN ORDER TO DETERMINE ACTUAL INVERTS AND LOCATIONS.

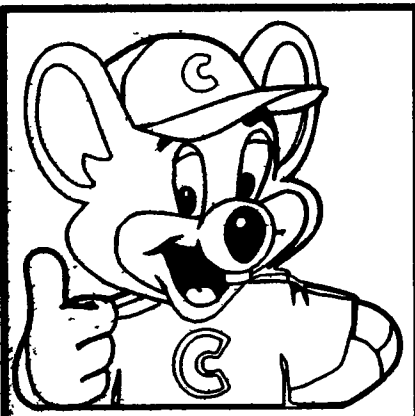
These plans have been checked to meet all codes which the City of Ocala enforces. If there are any errors, omissions, or oversights made by the person(s) checking these plans, this does not omit the enforcement of these said codes, and no CO will be issued until the said code violation(s) are corrected.

Signature

REVIEWED

NOV 1 2004

BY CITY OF OCALA



PERMIT # 780

CHUCK E. CHEESE'S PIZZA

CHIT-CHIT PLANNING - DESIGN

C.T. CHANG, AIA

1010 W. EULESS BLVD., SUITE 110

EULESS, TX 76040

CHUCK E. CHEESE'S PIZZA

780

OCALA, FL

3800 SW COLLIER ROAD-UNIT 800

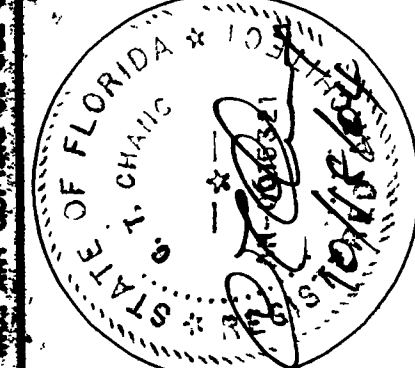
OCALA, FL

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4441 WEST AIRPORT FREEWAY

IRVING, TEXAS 75062

FLOOR PLAN



Date	10/18/2004
Revisions	
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